Yahoo Group Archive: MSR2000

Yahoo Group summary: MSR2000 Repeater/Radio Equipment

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2018. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2008-05-07 through 2018-05-02

Source WARC: msr2000.BUVdLHI.warc.gz

Source item: https://archive.org/details/yahoo-groups-2018-06-21T07-45-17Z-3ab8c0

Messages included in this PDF: 482

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. Group start-up

Yahoo group: MSR2000
Date: 2008-05-07 16:29:26 UTC
From: Tony Lelieveld
Topic: 1 Message: 1

Hi all,
Just wanted to say "Thanks" to Ron for starting this group. I am sure that it will be very useful and I hope that much information will be gathered.
73, Tony VE3DWI

2. welcome

Yahoo group: MSR2000
Date: 2008-05-07 18:49:38 UTC
From: Cpt Ron Wright/FVF
Topic: 2 Message: 2

to all,

Welcome to the MSR2000 group.

In my opion I think the MSR2000 is one of the best pieces of equipment for building a repeater. It use to be the Micor, but these are getting old.

I know the MSR2000 is older technology in that it is crystal controlled, but with the many of the needed features and specs a repeater must have in a real world of high antennas, crowded sites RF wise, clean equipment RF wise, etc the MSR2000 is a very good piece of equipment.

I am just getting into them. I come from the Mot Micor and GE Mastr lines and still like what they have to offer.

Today one can get a mint condition MSR2000 100 W continuous duty repeater, real equipment made for a real repeater, for $300. A radio that probably cost $4000 new can be had for little money.

I am sure there are many, as I am one, who had to wait for the MSR2000 to become older before they could afford one. Same with Micor. Thinking in the 70s and before the junk we used to make repeaters. This was what we had to work with. It made a Hamtronics or VHF Engineering, etc at $800 look good, but today how blessed we are. Guess good things come to those that wait.

Look forward to getting your experience with this rig.

73, ron, n9ee/r

ps: yes I know we need a better picture on the front page. Any one have something.

3. rules

Yahoo group: MSR2000
Date: 2008-05-07 18:56:16 UTC
From: Cpt Ron Wright/FVF
Topic: 3 Message: 3

hi all,

I don't look for this group to get very big...maybe couple hundred if that.

As for topics of discussion I would like to keep to MSR2000 or repeaters, but know sometimes other topics pop up. Making contact plans for say Dayton are not a problem. Just saying hi is fine as I am concerned. Really about anything. Would like to keep it civil, but then again some get passionate about repeaters.

I think if we just keep it civil we will be ok.

I would like to see all who post and reply sign their postings. I always like knowing who I am addressing. Also lets others know you are not beating up I mean responding to them.

The board is pretty much open to all members. You can post PHOTOS, MESSAGES, LINKS, FILES, etc. Selling is good also; for yourself, e-bay, others, etc.

73, ron, n9ee/r

4. manuals

Yahoo group: MSR2000
Date: 2008-05-09 00:46:13 UTC
From: Cpt Ron Wright/FVF
Topic: 4 Message: 4

hi all,

On e-bay there is a set of the two MSR2000 manuals at:

Motorola MSR2000 Base Repeater Service Manual MSR 2000
Item number: 200222064354

http://cgi.ebay.com/Motorola-MSR2000-Base-Repeater-Service-Manual-MSR-2000_W0QQitemZ200222064354QQihZ010QQcategoryZ46539QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

At present the bid is $15 with $12 shipping. I paid $45 and was well worth it. Another seller is asking $99+ ship.

One of the manuals is for the RF stuff and the other the card cage and housing.

73, ron, n9ee/r

5. test set

Yahoo group: MSR2000
Date: 2008-05-09 00:48:54 UTC
From: Cpt Ron Wright/FVF
Topic: 5 Message: 5

hi all,

Another e-bay item for the MSR2000 is the small test set at:

Motorola TRN-5080A DC Metering Set For MSR-2000
Item number: 300222768528

5 days left in the auction.

Another seller wants $99 buy now.

This plugs into the various test sockets for alignment.

73, ron, n9ee/r

6. Re: test set

Yahoo group: MSR2000
Date: 2008-05-09 20:48:41 UTC
From: Howard
Topic: 5 Message: 6

--- In MSR2000@yahoogroups.com, "Cpt Ron Wright/FVF" <mccrpt@...> wrote:
>
> hi all,
>
> Another e-bay item for the MSR2000 is the small test set at:
>
> Motorola TRN-5080A DC Metering Set For MSR-2000
> Item number: 300222768528
>
> 5 days left in the auction.
>
> Another seller wants $99 buy now.
>
> This plugs into the various test sockets for alignment.
>
> 73, ron, n9ee/r
>

I guess I lucked out. I found the test set at a local hamfest for $25.
Was very surprised to find one there. I have seen them advertised for
$75 but was a bit reluctant to buy it.

Howard K2IMO

7. ID Card

Yahoo group: MSR2000
Date: 2008-05-11 00:25:53 UTC
From: vo1ken_2000
Topic: 7 Message: 7

Anyone aware of a source for the ID card? A local club is looking for a card for their MSR2000. Any help would be appreciated.

73
Ken - VO1ST

8. RE: [MSR2000] ID Card

Yahoo group: MSR2000
Date: 2008-05-12 04:26:27 UTC
From: Tony Lelieveld
Topic: 7 Message: 8

Ken,

I can help you on an ID card. Contact me off the list at
ve3dwi@... I take it you are familiar with the card as it requires
re-programming of an E-prom.

73, Tony VE3DWI

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
vo1ken_2000
Sent: May 10, 2008 20:26
To: MSR2000@yahoogroups.com
Subject: [MSR2000] ID Card

Anyone aware of a source for the ID card? A local club is looking for a
card for their MSR2000. Any help would be appreciated.

73
Ken - VO1ST

9. MSR help needed.

Yahoo group: MSR2000
Date: 2008-05-12 13:47:26 UTC
From: Cpt Ron Wright/FVF
Topic: 9 Message: 9

From WB0VHB and Repeater-Builders board. Contact Randy directly at rande1@farmtel.net

I have a digital MSF5000 that normally works OK. From time to time it stops working and L06 is displayed.

Resetting the station brings it back to operation.

My service manual does not list error code L06. Does anyone know what it means?

Randy
WB0VHB

10. links and files

Yahoo group: MSR2000
Date: 2008-05-18 16:26:22 UTC
From: Cpt Ron Wright/FVF
Topic: 10 Message: 10

hi all,

In LINKS are some to the Repeater-builders page for the MSR2000.

If anyone has any sources for MSR2000 sources and info please put
either in the LINK or FILES.

73, ron, n9ee/r

11. MSR 2000 audio loss

Yahoo group: MSR2000
Date: 2008-05-22 21:01:45 UTC
From: Buddy
Topic: 11 Message: 11

Our club repeater is a MSR2000. Last week it started dropping audio but would stay keyed up as long as carrier was present. This would start after about 5 minuter of use. Problem found was on the R1 audio board. U4A is a switch in the audio path. Audio enters on pin 1 and exits on pin 2 when squelch switch Q109 opens and places from 9-12 volts on pin 13. monitoring this voltage it would start out at 11 volts and fall to about 7 volts and then no audio would pass. replaced chip with a 4016 and corrected problem.

12. PA on e-bay

Yahoo group: MSR2000
Date: 2008-05-28 16:25:16 UTC
From: Cpt Ron Wright/FVF
Topic: 12 Message: 12

On e-bay VHF MSR2000 PA, item nr 120265958169.

Motorola # TLD-2602A, MSR-2000 VHF PA deck. Freq range 150.8 > 162 mc/s 400 mw input - 110+ watts output.

I think the freq is incorrect for MSR2000s high split went down to 146 so sure PA does also.

This is continous duty. Bid now $0.99, but over 4 days left.

73, ron, n9ee/r

13. Re: [MSR2000] PA on e-bay

Yahoo group: MSR2000
Date: 2008-06-03 04:08:53 UTC
From: larryjspammenot@teleport.com
Topic: 12 Message: 13

Ron, the MSR-2000 VHF Receiver and Exciter both came in two frequency ranges: 132-150.8 MHz, and 146-174 MHz. According to engineers I spoke with at Motorola many years ago, both will generally work well?anywhere in?the 2-Meter band.

But the PA deck is split into three different frequency ranges, like the MICOR PA deck. The 100-Watt Continuous-duty PA decks are:

Model # TLD2601A (132-150.8 MHz),? TLD2602A (150.8-162 MHz), and TLD2603A 162-174 MHz.)

Like the MICOR PA decks, you'd only want to use the 132-150.8 MHz TLD2601A version, or convert one of the higher?range ones into a low-split PA. Otherwise, your days using it on 2-Meters would be greatly lessened.....

?

LJ

-----Original Message-----
From: Cpt Ron Wright/FVF
Sent: May 28, 2008 9:25 AM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] PA on e-bay

On e-bay VHF MSR2000 PA, item nr 120265958169.

Motorola # TLD-2602A, MSR-2000 VHF PA deck. Freq range 150.8 > 162
mc/s 400 mw input - 110+ watts output.

I think the freq is incorrect for MSR2000s high split went down to 146
so sure PA does also.

This is continous duty. Bid now $0.99, but over 4 days left.

73, ron, n9ee/r

14. Re: [MSR2000] PA on e-bay

Yahoo group: MSR2000
Date: 2008-06-03 11:26:52 UTC
From: Ron Wright
Topic: 12 Message: 14
Attachments: 2 described; binary payloads are missing from this source WARC

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[ Attachment content not displayed ]
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15. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2008-06-03 12:40:09 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 15

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /MSR2000 Equipment Info/MSR2000 receiver tuning.jpg
Uploaded by : lt_wright_flg <mccrpt@...>
Description : MSR2000 Receiver Tuning Procedure

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/MSR2000%20Equipment%20Info/MSR2000%20receiver%
20tuning.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

lt_wright_flg <mccrpt@...>
```

16. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2008-06-03 12:40:41 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 16

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /MSR2000 Equipment Info/MSR2000 transmitter models.jpg
Uploaded by : lt_wright_flg <mccrpt@...>
Description : MSR2000 Transmitter Models

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/MSR2000%20Equipment%20Info/MSR2000%20transmitter%20models.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

lt_wright_flg <mccrpt@...>

17. info

Yahoo group: MSR2000
Date: 2008-06-03 13:14:18 UTC
From: Cpt Ron Wright/FVF
Topic: 17 Message: 17

hi all,

In FILES I have up loaded model info and alignment procedures from the MSR2000 manual.

Hope this helps some when working with the MSR2000.

73, ron, n9ee/r

18. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2008-06-03 13:54:27 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 18

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /MSR2000 Equipment Info/MSR2000 TPN1191A Power Supply.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : MSR2000 Model TPN1191A power supply diagrams and specs

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/MSR2000%20Equipment%20Info/MSR2000%20TPN1191A%
20Power%20Supply.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

lt_wright_flg <mccrpt@...>
```

19. Re: [MSR2000] PA on e-bay

Yahoo group: MSR2000
Date: 2008-06-03 15:12:52 UTC
From: larryjspammenot@teleport.com
Topic: 12 Message: 19

For that price, I'd like to have one, too. I often find VHF MSR-2000s but with the high-split PA Deck. I often find UHF MSR-2000s as well, just picked up a few more at a local government auction, that will be going to ebay. I've been using a 100-watt UHF one for about 15 years on the 440 Ham Band - fortunately, they don't need any conversion (the 450-470 MHz range ones).

LJ

?

-----Original Message-----
From: Ron Wright
Sent: Jun 3, 2008 4:26 AM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] PA on e-bay

Larry,

Thanks for the info.

It seems on the PAs, as you said, is pretty much like the Micor or probably a copy.

I bought off e-bay a TLD2601A (132-150.8) MSR2000 PA for $50 + $40 shipping.? It came from Canada.? The seller said he had 30 or so of these.? He did have for a time listings of these on e-bay. I see lots of 140-150 MHz stuff from Canada and think they use it like we in the US use 150-160 so lots more of this stuff in Canada that is good for Ham use.? I've gotten GE Mastr rigs in 140-150 range from Canada.? Just wish they would do something about their high shipping, hi.

Thanks for the info.?; I verified it in the MSR manual.? With Mot engineering and building their stuff so well details like this are needed.

73, ron, n9ee/r

Ron Wright, N9EE

727-376-6575

MICRO COMPUTER CONCEPTS

Owner 146.64 repeater Tampa Bay, FL

No tone, all are welcome.

?

On Tue, Jun 3, 2008 at 12:08 AM, larryjspammenot@teleport.com wrote:

Ron, the MSR-2000 VHF Receiver and Exciter both came in two frequency ranges: 132-150.8 MHz, and 146-174 MHz. According to engineers I spoke with at Motorola many years ago, both will generally work well anywhere in the 2-Meter band.

But the PA deck is split into three different frequency ranges, like the MICOR PA deck. The 100-Watt Continuous-duty PA decks are:

Model # TLD2601A (132-150.8 MHz),? TLD2602A (150.8-162 MHz), and TLD2603A 162-174 MHz.)

Like the MICOR PA decks, you'd only want to use the 132-150.8 MHz TLD2601A version, or convert one of the higher range ones into a low-split PA. Otherwise, your days using it on 2-Meters would be greatly lessened.... ...

?

LJ

-----Original Message-----

From: Cpt Ron Wright/FVF

Sent: May 28, 2008 9:25 AM

To: MSR2000@yahoogroups .com

Subject: [MSR2000] PA on e-bay

On e-bay VHF MSR2000 PA, item nr 120265958169.

Motorola # TLD-2602A, MSR-2000 VHF PA deck. Freq range 150.8 > 162

mc/s 400 mw input - 110+ watts output.

I think the freq is incorrect for MSR2000s high split went down to 146

so sure PA does also.

This is continous duty. Bid now $0.99, but over 4 days left.

73, ron, n9ee/r

20. rcvr question

Yahoo group: MSR2000
Date: 2008-06-04 00:38:27 UTC
From: Cpt Ron Wright/FVF
Topic: 20 Message: 20

hi all,

I have a VHF MSR2000 that I am building up for use as a Ham repeater.

As with I think all MSR2000s in the compartment for the exciter and receiver is a second receiver slot, the middle slot.

My question is can I plug a UHF receiver into this middle/second slot???

If so I am sure the tuning charts on the top would not line up, but would the receiver work. I would add a 3rd antenna connector for this receiver.

I want to use the UHF for control.

73, ron, n9ee/r

21. card cage guides

Yahoo group: MSR2000
Date: 2008-06-06 12:42:15 UTC
From: Cpt Ron Wright/FVF
Topic: 21 Message: 21

hi all,

I am looking for the plastic card guides for the card cage. The small 4-5" long groved guides that position the cards in the card cage.

Any one have a source short of buying a MSR2000 for parts.

73, ron, n9ee/r

22. msr 2000 TPN 1191A power supply

Yahoo group: MSR2000
Date: 2008-06-18 13:02:30 UTC
From: ve3ext@primus.ca
Topic: 22 Message: 22

Hi Group

need an auxilary regulator board,# TRN5119A for the above supply----can someone assist please ??

Thanks

Jerry VE3 EXT

23. VHF MSR2000 for sale Indianapolis area

Yahoo group: MSR2000
Date: 2008-06-23 13:55:27 UTC
From: indianaradiotech
Topic: 23 Message: 23

Model C73KSB3196A, 100W continuous 132-150.8Mhz, perfect for 2M
Serial 482CJG1141

Exciter TLD-9231A
Receiver TRD-6171A
PA (132-150.8Mhz) TLD-2601A, 100W continuous
Power Supply TPN-1191A

Card cage has the following cards
Station Control TRN-5321A
Line Driver TRN-5236A
4 freq control TRN-5296A
Guard tone dec TRN-5307A
F1 PL Control TRN-5328A
R1 audio TRN-5068A
PL 123Hz TRN-5074A

It is configured as a Base with a T/R relay It is missing the channel elements The elements needed are 0.0005% Rx - KXN1086B, Tx - KXN1088B 0.0002% Rx - KXN1112A, Tx - KXN1095A http://www.repeater-builder.com/mitrek/mitrek-index.html

I think I have a manual, I'll check

No warranties are expressed or implied
I have never powered up the station
I can deliver it in greater Indianapolis I'm asking $185, and perhaps some guidance on becoming a HAM

Pictures available upon request

24. Re: VHF MSR2000 for sale Indianapolis area

Yahoo group: MSR2000
Date: 2008-06-24 13:10:02 UTC
From: Cpt Ron Wright/FVF
Topic: 23 Message: 24

I'd love to have this unit. I would like to see some pictures. Unfortunly one cannot send with attachments thru a yahoo board. You can send to me at mccrpt@... or you could post in the PHOTOS section of this board for all to see.

I have a few friends in Indy. I got my 9 call in Indy when I lived out 21st St and worked at then NAFI, the Naval Avionics. Know it has changed hands so don't know what is going on now. Have a few friends that operate the 146.97 repeater. I am sure they would be interested although they have been in 2-way bus for years and have MSR2000s.

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "indianaradiotech" <dcampbell@...>
wrote:
>
> Model C73KSB3196A, 100W continuous 132-150.8Mhz, perfect
for 2M
> Serial 482CJG1141
>
> Exciter TLD-9231A
> Receiver TRD-6171A
> PA (132-150.8Mhz) TLD-2601A, 100W continuous
> Power Supply TPN-1191A
>
> Card cage has the following cards
> Station Control TRN-5321A
> Line Driver TRN-5236A
> 4 freq control TRN-5296A
> Guard tone dec TRN-5307A
> F1 PL Control TRN-5328A
> R1 audio TRN-5068A
> PL 123Hz TRN-5074A
>
> It is configured as a Base with a T/R relay It is missing the
> channel elements The elements needed are 0.0005% Rx - KXN1086B, Tx -

> KXN1088B 0.0002% Rx - KXN1112A, Tx - KXN1095A http://www.repeater-
> builder.com/mitrek/mitrek-index.html
>
> I think I have a manual, I'll check
>
> No warranties are expressed or implied
> I have never powered up the station
> I can deliver it in greater Indianapolis I'm asking $185, and
> perhaps some guidance on becoming a HAM

>
> Pictures available upon request
>

25. manuals

Yahoo group: MSR2000
Date: 2008-06-24 21:27:28 UTC
From: Ron Wright
Topic: 4 Message: 25

On e-bay is for sell VHF manuals for MSR2000:

Item number: 200234138963

73, ron, n9ee/r

26. PL to DPL Conversion

Yahoo group: MSR2000
Date: 2008-07-07 17:58:52 UTC
From: Brian Alesio
Topic: 26 Message: 26

Dear Group,

I am a new member and I am having a bit of a problem with a perfectly good MSR2000 UHF repeater which I wish to change from PL to DPL. My partial paperwork shows that the standard PL, thats "TRN5073A-75A", uses an audio filter (suck out filter) that goes through the card from pin 15 to pin 19 output. The DPL counterpart "TRN5076-77A or 78A" have no such filtering provision. I would appreciate any help to re-establish the audio path now lacking. Thanks in advance, all guidance and comments appreciated.

BRIAN

_____
Find the best deal for your dream automobile. Click here for high quality used cars!
http://thirdpartyoffers.juno.com/TGL2141/fc/Ioyw6i3oE0btQwYqoyeaqtPnMzRgvoQx6fjReTuCaxKw9k775gnNnO/

27. Re: [MSR2000] PL to DPL Conversion

Yahoo group: MSR2000
Date: 2008-07-07 22:10:39 UTC
From: Paul Caccamo, VA3PC
Topic: 26 Message: 27

If you install JU1 on the R1 Audio Squelch board (TRN5068A), it should bypass the FL filter that is done on the PL Board.
73
Paul, VA3PC

----- Original Message -----
From: Brian Alesio
To: MSR2000 Yahoo Group
Sent: Monday, July 07, 2008 1:58 PM
Subject: [MSR2000] PL to DPL Conversion

Dear Group,

I am a new member and I am having a bit of a problem with a perfectly good MSR2000 UHF repeater which I wish to change from PL to DPL. My partial paperwork shows that the standard PL, thats "TRN5073A-75A", uses an audio filter (suck out filter) that goes through the card from pin 15 to pin 19 output. The DPL counterpart "TRN5076-77A or 78A" have no such filtering provision. I would appreciate any help to re-establish the audio path now lacking. Thanks in advance, all guidance and comments appreciated.

BRIAN

_____
Find the best deal for your dream automobile. Click here for high quality used cars!
http://thirdpartyoffers.juno.com/TGL2141/fc/Ioyw6i3oE0btQwYqoyeaqtPnMzRgvoQx6fjReTuCaxKw9k775gnNnO/

!DSPAM:1,487259a840812072319027!

28. RE: [MSR2000] PL to DPL Conversion

Yahoo group: MSR2000
Date: 2008-07-08 14:30:55 UTC
From: Donald Campbell
Topic: 26 Message: 28

Sounds just like my issue converting a Micor last night

The PL filter jumper is only cut for PL, not CS or DPL, or external controller

Donald

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Paul Caccamo, VA3PC
Sent: Monday, July 07, 2008 6:11 PM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] PL to DPL Conversion

If you install JU1 on the R1 Audio Squelch board (TRN5068A), it should bypass the FL filter that is done on the PL Board.

73

Paul, VA3PC

----- Original Message -----

From: Brian Alesio <mailto:sparks1250@...>

To: MSR2000 <mailto:MSR2000@yahoogroups.com> Yahoo Group

Sent: Monday, July 07, 2008 1:58 PM

Subject: [MSR2000] PL to DPL Conversion

Dear Group,

I am a new member and I am having a bit of a problem with a perfectly good MSR2000 UHF repeater which I wish to change from PL to DPL. My partial paperwork shows that the standard PL, thats "TRN5073A-75A", uses an audio filter (suck out filter) that goes through the card from pin 15 to pin 19 output. The DPL counterpart "TRN5076-77A or 78A" have no such filtering provision. I would appreciate any help to re-establish the audio path now lacking. Thanks in advance, all guidance and comments appreciated.

BRIAN

Find the best deal for your dream automobile. Click here for high quality used cars!
http://thirdpartyof
<http://thirdpartyoffers.juno.com/TGL2141/fc/Ioyw6i3oE0btQwYqoyeaqtPnMzRgvoQ

x6fjReTuCaxKw9k775gnNnO/>
fers.juno.com/TGL2141/fc/Ioyw6i3oE0btQwYqoyeaqtPnMzRgvoQx6fjReTuCaxKw9k775gn
NnO/

!DSPAM:1,487259a840812072319027!

No virus found in this incoming message.
Checked by AVG.
Version: 7.5.526 / Virus Database: 270.4.6/1539 - Release Date: 7/7/2008
6:35 PM

29. PA

Yahoo group: MSR2000
Date: 2008-07-08 17:01:10 UTC
From: Ron Wright
Topic: 29 Message: 29

hi all,

For info on e-bay:

MSR 2000 VHF Power Amplifier Item number: 170237062216

This is continous duty 150-162 MHz PA

73, ron, n9ee/r

30. power supply

Yahoo group: MSR2000
Date: 2008-07-08 17:02:51 UTC
From: Ron Wright
Topic: 30 Message: 30

hi all,

On ebay:

Motorola MSR2000 Power Supply Item number: 170237070022

73, ron, n9ee/r

31. regulator board for msr 2000 pwr supply

Yahoo group: MSR2000
Date: 2008-07-14 13:00:07 UTC
From: ve3ext
Topic: 31 Message: 31

Hi All still looking for the above board-TRN5119A, need for a project!

Can someone pls. help?

Tnx

Jerry VE3 EXT

32. Re: [MSR2000] regulator board for msr 2000 pwr supply

Yahoo group: MSR2000
Date: 2008-07-25 21:59:09 UTC
From: Ted Bleiman K9MDM - MDM Radio
Topic: 31 Message: 32

jerry
there are 2 boards on this supply
the small board next to the rectifier stack with 3 fuses on it and the board on the 9.6 v reg shelf do you want both of these. thats the only boards available.
there is a large porcelain resistor attached to the small board and the 2 boards are interconnected.
lemme know
mdm ted

Ted Bleiman K9MDM
MDM Radio " If its in stock...we've got it!"
P O Box 31353
Chicago, IL 60631-0353
773.631.5130 fax 773.775.8096

web http://www.mdmradio.com
 email - mdmradio@... <<< DIRECT ALL EMAIL

--- On Mon, 7/14/08, ve3ext <ve3ext@...> wrote:

From: ve3ext <ve3ext@...>
Subject: [MSR2000] regulator board for msr 2000 pwr supply
To: MSR2000@yahoogroups.com
Date: Monday, July 14, 2008, 8:00 AM

Hi All still looking for the above board-TRN5119A, need for a project!

Can someone pls. help?

Tnx

Jerry VE3 EXT

33. Re: regulator board for msr 2000 pwr supply

Yahoo group: MSR2000
Date: 2008-07-27 14:10:15 UTC
From: ve3ext@primus.ca
Topic: 31 Message: 33

Ted yes please both boards., the one I really need is the 9.6 reg. board numberTRN 5119A, three -3 pin connectors at one end., large 2/1/2 " CAP., silver in the middle of the board., yes,only two boards on this supply !

Tnx for your help

Jerry VE3 EXT

34. Re: [MSR2000] Re: regulator board for msr 2000 pwr supply

Yahoo group: MSR2000
Date: 2008-07-27 15:09:34 UTC
From: Ted Bleiman K9MDM - MDM Radio
Topic: 31 Message: 34

ok i'll pack'em up and ship to ma.
just wanted to be certain we were on the same page or in the same box actually.
tnx
73
mdm

Ted Bleiman K9MDM
MDM Radio " If its in stock...we've got it!"
P O Box 31353
Chicago, IL 60631-0353
773.631.5130 fax 773.775.8096

web http://www.mdmradio.com
 email - mdmradio@...m <<< DIRECT ALL EMAIL

--- On Sun, 7/27/08, ve3ext@... <ve3ext@primus.ca> wrote:

From: ve3ext@... <ve3ext@...>
Subject: [MSR2000] Re: regulator board for msr 2000 pwr supply
To: MSR2000@yahoogroups.com
Date: Sunday, July 27, 2008, 9:10 AM

Ted yes please both boards., the one I really need is the 9.6 reg. board
numberTRN 5119A, three -3 pin connectors at one end., large 2/1/2 " CAP.,
silver in the middle of the board., yes,only two boards on this supply !

Tnx for your help

Jerry VE3 EXT

35. Base to Repeater conversion

Yahoo group: MSR2000
Date: 2008-07-31 22:49:40 UTC
From: Greg
Topic: 35 Message: 35

I'm in the process of changing an MSR2000 from base to repeater configuration. I'm pretty close but have one issue, it is straped for PL, when it receives the signal w/PL it keys up, repeats audio and un-keys and starts that process over again (kurchunks itself). Any clue what is causing this??

Greg/N5SKE

36. Re: [MSR2000] Base to Repeater conversion

Yahoo group: MSR2000
Date: 2008-08-01 00:42:16 UTC
From: william474@aol.com
Topic: 35 Message: 36

It could be lack of isolation between the transmitter and receiver (sounds like desense). You didn't say if you had it hooked up to a duplexer or if you were connected directly to the antenna or to a dummy load. Also MSR base stations lack some of the shielding/filtering that MSR repeaters have.

BB

In a message dated 7/31/2008 5:49:52 P.M. Central Daylight Time, rf_eng@... writes:

I'm in the process of changing an MSR2000 from base to repeater configuration. I'm pretty close but have one issue, it is straped for PL, when it receives the signal w/PL it keys up, repeats audio and un-keys and starts that process over again (kurchunks itself). Any clue what is causing this??

Greg/N5SKE

Yahoo! Groups Links

**********Get fantasy football with free live scoring. Sign up for FanHouse Fantasy Football today. (http://www.fanhouse.com/fantasyaffair?ncid=aolspr00050000000020)

37. MSR2000 PA

Yahoo group: MSR2000
Date: 2008-08-20 23:58:03 UTC
From: Ron Wright
Topic: 37 Message: 37

On e-bay,

<otorola MSR 2000 VHF 100 Watt Power Amplifier TLD2602A
Current price: $42.00
End time: Aug-20-08 18:47:58 PDT

73, ron, n9ee/r

38. Re UHF p.a TLE2283B

Yahoo group: MSR2000
Date: 2008-08-24 00:13:53 UTC
From: ve3ext
Topic: 38 Message: 38

Help please- no schematic and trying to fire up this P.A>

On the power control board there are three wires., black, white and white with red tracer.

This seems to be for a control voltage., could someone tell me what voltages are on these three wires., I beleive the plug is P/J 902 .

These three wires connect to a plug., that mounts on the main frame of the P.A

Of course a copy of the schematic would be most welomed !

Tnx

Jerry VE3 EXT

39. (no subject)

Yahoo group: MSR2000
Date: 2008-08-30 00:01:55 UTC
From: kk2ed@comcast.net
Topic: 39 Message: 39

I have the following repeaters for sale.

Three (3) units - all identical and set up the same, as follows:

MSR2000 C73GSBXXXX VHF repeater. 100w int duty PA, in 29" compa-station cabinet. Professionally wired to a brand new never used Arcom RC-210 repeater controller in rack mount case with newer-style (greatly improved S/N ratio) Arcom audio delay board. The controller is properly wired to the MSR's backplane via an 8-conductor shieled 22ga cable, and the power connection is also properly made to the backplane. Wire-tied to look factory-done, and enough slack left to remove/service the controller as needed.

All backplane jumpers and card jumpers set for proper operation with external controller. The audio and squelch card has been properly modified to allow the controller to fully select between COS, PL, COS&PL, or COS or PL, depending on how the controller is programmed by the user. The card has been set so that the presence of PL detect will not affect the carrier squelch. Carrier squelch circuit works similar to the Micors - 20db quieting or better results in almost no tail. Noisy signals have a long tail. However, the Arcom audio delay board mutes the tails anyway, so they are never heard regardless. Great for vhf mobiles which usually flutter a lot.

The repeater has been fully aligned to factory specs for 0.25uv/12db sinad receive sensitivity and the PA makes full power in excess of 100w. However, for amateur use, especially during long nets or linked systems, these PAs should be derated to 60-80w or so and fans added, and they will last forever.

Factory encode/decode PL board present and wired properly to the Arcom controller for both rx DECODE (as stated above), as well as tx ENCODE control via the controller programming (on, off, follow cos, etc..)

The repeater is currently set on 146.880TX/146.280RX using my test bench channel elements. I will re-crystal the original elements and tune the repeater to your desired frequency on receipt of a deposit (basically to cover my exposure on the crystals should you cancel).

I had about 17 of these, and have sold a number of them turn-key to various radio clubs and repeater owners in the tri-state area, and am more than happy to provide references of owners and currently operating units/systems.

Price is $950 turn-key, crystalled and tuned to your frequency, including the Arcom controller. The controller package (RC210, AD, case) is worth approx. $500 alone. The crystals are $50 themselves, elements on frequency are worth $100 or so. So how can you beat a real repeater for $400 before the controller and crystals, tuned and ready to go?

I will also sell the repeaters turn-key less the Arcom controller package for $475 each, and wire the cables for the controller of your choice so it is plug and play upon receipt.

The repeaters will have a 30-day warranty to cover proper operation against failure. Free phone/email tech support afterwards. Shipping extra. Due to weight, local pickup

preferred. I think Fedex Ground or DHL can ship the repeater cabinet for around $100 or so. Plus another $15 or so to protect and ship the controller separately.

Pictures also available to serious buyers. Feel free to contact me with any questions.

Eric
KE2D
609-713-3742

40. UHF MSR frequency range

Yahoo group: MSR2000
Date: 2008-11-05 22:18:01 UTC
From: Paul Caccamo
Topic: 40 Message: 40

I was recently given a UHF 30W MSR repeater in the 411/415 range. Does anyone know if the receiver and transmitter boards can be tuned to the 443/448 range without major component swaps? I don't have a manual handy for the UHF MSR, and would like to know if it is easily possible before spending money on rocks. Any comments welcome.
Thanks in advance
Paul, VA3PC

41. Repeater Control Card

Yahoo group: MSR2000
Date: 2008-12-17 00:22:10 UTC
From: Mike Ligeza
Topic: 41 Message: 41

Our club recently obtained an MSR2000.

We have documentation on the Station Control Card TRN5321A but can't find any info on another card included in the system, a Repeater Control Card TRN54E4 (TRN5464APR on back of pcb).

Does anyone have any information on this card?

42. Re: [MSR2000] Repeater Control Card

Yahoo group: MSR2000
Date: 2008-12-17 00:57:26 UTC
From: WD7F - John in Tucson
Topic: 41 Message: 42

Check out repeater-builder.com and see what you can find about the MSR2000 conversion. Also, you can checkout K7IOU's page on our MSR-2000 conversion and interfacing via the Squelch Gate card using a CAT-250 controller. We don't use a Repeater Control Card. We use the Station Control Module, Squelch Gate Card, F1-PL Control Module, PL card and the R1 Audio card. The repeater can be interfaced directly via the back plane of the repeater and then the Squelch Gate card is not used.

Lots of choices. You can check it out at www.wd7f.com and click on the MSR-2000 quick link.

de WD7F
John in Tucson

----- Original Message -----
From: "Mike Ligeza" <ve3uil@...>
To: <MSR2000@yahoogroups.com>
Sent: Tuesday, December 16, 2008 5:22 PM
Subject: [MSR2000] Repeater Control Card

> Our club recently obtained an MSR2000.
>
> We have documentation on the Station Control Card TRN5321A but can't
> find any info on another card included in the system, a Repeater
> Control Card TRN54E4 (TRN5464APR on back of pcb).
>
> Does anyone have any information on this card?
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

43. UHF preamp

Yahoo group: MSR2000
Date: 2008-12-27 21:13:57 UTC
From: Ron Wright
Topic: 43 Message: 43

hi all,

On e-bay there is UHF pre-amp for MSR2000 "buy now" $22.50.

Item number: 260337879600

73, ron, n9ee/r

44. channel element

Yahoo group: MSR2000
Date: 2009-01-26 00:35:29 UTC
From: Ron Wright
Topic: 44 Message: 44

I am in need of a TX channel element, VHF for MSR2000. Freq not important.

Anyone have one for sale???

73, ron, n9ee/r

45. rig tuning

Yahoo group: MSR2000
Date: 2009-01-26 00:47:26 UTC
From: Ron Wright
Topic: 45 Message: 45

Hi all,

Got a question.

Can we use a Micor test set to tune a MSR2000. I have a couple of the small test sets that comes with the MSR2000, the little black things, but thinking of using the Micor version...the large analog test set.

Today plugged in a new to me 100 W continous duty VHF MSR2000 and it did not smoke. Looking forward to working with it.

Did notice it has what appears to be Mot cable with DB25 coming out. Have no idea what it is for. Also has SQ gate card. This will be fun I am sure.

73, ron, n9ee/r

46. Dev adjust

Yahoo group: MSR2000
Date: 2009-01-29 00:12:01 UTC
From: vo1ken_2000
Topic: 46 Message: 46

Wonder if anyone has had any experience with the dev level jumping?
all of the boards have been replaced including the backplane however
every couple of months, the deviation has to be adjusted.

4 MSR2000's on site but only 1 has this problem.

Ken

47. RE: [MSR2000] Dev adjust

Yahoo group: MSR2000
Date: 2009-01-29 01:56:44 UTC
From: Tony Lelieveld
Topic: 46 Message: 47

Hi Ken,

Have you tried to clean the deviation pot on the crystal module? It may have developed a sensitive spot on the carbon layer. What about any other pots (outside the MSR) in the audio path? Good luck, I hope you find it.

Tony, VE3DWI

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of vo1ken_2000
Sent: January 28, 2009 19:12
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Dev adjust

Wonder if anyone has had any experience with the dev level jumping?
all of the boards have been replaced including the backplane however every couple of months, the deviation has to be adjusted.

4 MSR2000's on site but only 1 has this problem.

Ken

48. RE: [MSR2000] Dev adjust

Yahoo group: MSR2000
Date: 2009-01-29 01:57:49 UTC
From: Tony Lelieveld
Topic: 46 Message: 48

Hi Ken,

Have you tried to clean the deviation pot on the crystal module? It may have developed a sensitive spot on the carbon layer. What about any other pots (outside the MSR) in the audio path? Good luck, I hope you find it.

Tony, VE3DWI

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of vo1ken_2000
Sent: January 28, 2009 19:12
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Dev adjust

Wonder if anyone has had any experience with the dev level jumping?
all of the boards have been replaced including the backplane however every couple of months, the deviation has to be adjusted.

4 MSR2000's on site but only 1 has this problem.

Ken

49. Re: Dev adjust

Yahoo group: MSR2000
Date: 2009-02-03 23:44:57 UTC
From: vo1ken_2000
Topic: 46 Message: 49

Thanks Tony, the IDC pot was the problem. Its working fine now.

73 Ken

--- In MSR2000@yahoogroups.com, "Tony Lelieveld" <ve3dwi@...> wrote:
>
> Hi Ken,
>
> Have you tried to clean the deviation pot on the crystal module?
It may
> have developed a sensitive spot on the carbon layer. What about
any other
> pots (outside the MSR) in the audio path? Good luck, I hope you
find it.
>
> Tony, VE3DWI
>
>
>
> _____
>
> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On
Behalf Of
> vo1ken_2000
> Sent: January 28, 2009 19:12
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] Dev adjust
>
>
>
>
> Wonder if anyone has had any experience with the dev level jumping?
> all of the boards have been replaced including the backplane
however
> every couple of months, the deviation has to be adjusted.
>
> 4 MSR2000's on site but only 1 has this problem.
>
> Ken
>

50. Exciter tuning problem

Yahoo group: MSR2000
Date: 2009-02-03 23:53:46 UTC
From: vo1ken_2000
Topic: 50 Message: 50

Trying to tune an exciter however not getting any peaks on L701, L702 or L703.

With the meter in M1, I measure a high of 2 and can create a dip on all 3 adjustments.

Anyone come across this before?

Ken

51. Re: [MSR2000] Exciter tuning problem

Yahoo group: MSR2000
Date: 2009-02-04 12:42:09 UTC
From: Ron Wright
Topic: 50 Message: 51

Ken,

?

In my tuning I had just the opposite.? Could get nothing tuning the slugs until I used an HT and peaked what I could get then the meter started to move.? Then I could complete the tuning.

?

M1 is used for so much of the initial tuning, not like having a tuning meter setting for each stage.

?

I would say you got a problem somewhere else.

?

My other problem is getting the ch ele on freq, both rx and tx.? Still working on it. I had just taken elements and changed the xtal.? I have found removing the slugs gets closest, but not near close enough; 1.5kHz rx and 3kHz tx.? Seems less inductance in the coil decreases the freq, opposite to what I would think.? I am wondering if I can remove some of the L turns to bring down.? Not sure best approach to this.

?

73, ron, n9ee/r

?

?

?

Ron Wright, N9EE
BSEE
MICRO COMPUTER CONCEPTS
727-376-6575
Owner 146.64 repeater, highest in Tampa Bay, FL
No tone, all are welcome.

Feb 3, 2009 06:53:51 PM, MSR2000@yahoogroups.com wrote:

Trying to tune an exciter however not getting any peaks on L701, L702 or L703.

With the meter in M1, I measure a high of 2 and can create a dip on all 3 adjustments.

Anyone come across this before?

Ken

52. RE: [MSR2000] Re: Dev adjust

Yahoo group: MSR2000
Date: 2009-02-04 20:25:09 UTC
From: Tony Lelieveld
Topic: 46 Message: 52

Ken,

I am glad that you found the problem. We experienced this problem with MSR2000 [and other radios that use this style of crystal module] that had been in service for a number of years. On a bi-annual maintenance program we always made slight adjustments but the IDC pot setting usually remained within about 1/8 of a turn. They tended to develop a little "rough" spot on the carbon layer which allowed the deviation to jump sometimes. Cleaning the pot usually did the trick.

73, Tony VE3DWI

_____

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of vo1ken_2000
Sent: February 3, 2009 18:45
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Dev adjust

Thanks Tony, the IDC pot was the problem. Its working fine now.

73 Ken

--- In MSR2000@yahoogroups <mailto:MSR2000%40yahoogroups.com> .com, "Tony Lelieveld" <ve3dwi@...> wrote:
>
> Hi Ken,
>
> Have you tried to clean the deviation pot on the crystal module? It may
> have developed a sensitive spot on the carbon layer. What about any other
> pots (outside the MSR) in the audio path? Good luck, I hope you find it.
>
> Tony, VE3DWI
>
>
>
> _____
>
> From: MSR2000@yahoogroups <mailto:MSR2000%40yahoogroups.com> .com [mailto:MSR2000@yahoogroups <mailto:MSR2000%40yahoogroups.com> .com] On Behalf Of
> vo1ken_2000
> Sent: January 28, 2009 19:12

> To: MSR2000@yahoogroups <mailto:MSR2000%40yahoogroups.com> .com
> Subject: [MSR2000] Dev adjust
>
>
>
>
> Wonder if anyone has had any experience with the dev level jumping?
> all of the boards have been replaced including the backplane
however
> every couple of months, the deviation has to be adjusted.
>
> 4 MSR2000's on site but only 1 has this problem.
>
> Ken
>

53. Power Amplifier for a MSR2000 UHF Range 2

Yahoo group: MSR2000
Date: 2009-02-13 13:32:10 UTC
From: valawdog
Topic: 53 Message: 53

I am looking for a Power Amplifier for a MSR2000 UHF Range 2, Part #
TLE2283B.

Thanks

54. Transistors for VHF PA

Yahoo group: MSR2000
Date: 2009-03-03 17:28:33 UTC
From: k4gkj
Topic: 54 Message: 54

I'm looking for a source of replacement parts for the MSR2000 PA.

I would also know if there is an easy 'fix' for rebanding a PA from the 150 and up to the ham band.

thanks,
doug

55. MSR2000

Yahoo group: MSR2000
Date: 2009-03-15 17:33:50 UTC
From: mike
Topic: 55 Message: 55

Hi all
Thanks for letting me join!
I have a MSR2000 UHF 450-470mhz base station. I planning on using it for a remote link station for my six meter repeater.
I need to move the UHF transmitter down to 423.xxx. Has anyone move one down this low and what caps did you change to get to go there.
Also I am looking for a Squelch gate card if anyone has one. I think the Micor one will work unless some can tell me differently.
Thanks for your help in advance

56. MSR-2000 with voter

Yahoo group: MSR2000
Date: 2009-03-15 19:08:01 UTC
From: firefighteronduty
Topic: 56 Message: 56

Can someone help me decipher the steps to separate the receive audio, and COR from the MSR-2000 to route it through a Doug Hall voter. I then need to know where to inject the output from the voter into the transmitter. I have a MSR-2000 service manual. I do have a four wire line driver card (TRN-5235A) I also have a separate receive radio that will not be in the MSR-2000 2nd receiver slot.

57. power supply question

Yahoo group: MSR2000
Date: 2009-03-27 20:08:06 UTC
From: ve1ii
Topic: 57 Message: 57

Hi folks,

I'd appreciate hearing comments as to whether anyone is using the power supply in a continuous duty repeater to supply the power for running their link radios also.
I would be using two Vertex FTL-7011 UHF radios running 5 watts and it would be very unlikely that more than one would be transmitting at a time.
The VHF MSR2000 would be likely set at about 70 watts.
Rack space is running low.

Thanks,

Bruce, VE1II

58. card needed

Yahoo group: MSR2000
Date: 2009-04-05 13:57:24 UTC
From: Ron Wright
Topic: 58 Message: 58

Hi all,

I am look for couple of simple MSR2000 card cage cards. I will take these and cut all components off and use to mount some other items on, but want to be able to insert into the card cage and pick up some signals from the back plane.

Something like the timeout timer or other card that has few components.

Let me know and how much you need for them. I keep looking on e-bay and cannot come up with anything I like.

73, ron, n9ee/r

ps I like my MSR2000 do not want to put it in service looking like a rats nest with wire all over the place, except for the wires Motorola made up so well.

59. Looking for MSR2000 UHF receivers

Yahoo group: MSR2000
Date: 2009-04-06 17:06:02 UTC
From: tedsims
Topic: 59 Message: 59

I'm looking for a couple of MSR2000 UHF receivers, in the 450~470 MHz split.

I might also be interested in one (1) in the 470~512 split if the price is right, since I have a 450~470 MHz helical filter assembly from a hopelessly dead UHF receiver and I guess I can do a transplant.

60. Re: MSR2000

Yahoo group: MSR2000
Date: 2009-04-06 17:09:03 UTC
From: tedsims
Topic: 55 Message: 60

I'm not sure the helical filter on the output will tune down that low. Have you got something like a spectrum analyzer with a tracking generator so you can check? If the helicals can't be tuned down to 423, it's going to be a chore to modify them.

--- In MSR2000@yahoogroups.com, "mike" <mzfb@...> wrote:
>
> Hi all
> Thanks for letting me join!
> I have a MSR2000 UHF 450-470mhz base station. I planning on using it for a remote link station for my six meter repeater.
> I need to move the UHF transmitter down to 423.xxx. Has anyone move one down this low and what caps did you change to get to go there.
> Also I am looking for a Squelch gate card if anyone has one. I think the Micor one will work unless some can tell me differently.
> Thanks for your help in advance
>

61. MSR 2000 Receiver

Yahoo group: MSR2000
Date: 2009-06-12 23:18:50 UTC
From: mike
Topic: 61 Message: 61

Hi all
I am looking for a UHF Receiver for the MSR2000 that will tune in the 440mhz band. I have a coupld of UHF receivers in the high end however they won't tune down to where I want to be. If anyone is looking for the 470mhz I have one if interested.
Thanks
Mike

62. Re: [MSR2000] MSR 2000 Receiver

Yahoo group: MSR2000
Date: 2009-06-13 16:36:12 UTC
From: Ted Bleiman K9MDM - MDM Radio
Topic: 61 Message: 62

mike i have a complete msr2000 main chassis for repeater missing dpl card $125.00 + shipping
has all other cards
rx only $65.00 + post

Ted Bleiman K9MDM
MDM Radio " If its in stock...we've got it!"
P O Box 31353
Chicago, IL 60631-0353
773.631.5130 fax 773.775.8096

web http://www.mdmradio.com
 email - mdmradio@... <<< DIRECT ALL EMAIL

--- On Fri, 6/12/09, mike <mzfb@verizon.net> wrote:

From: mike <mzfb@...>
Subject: [MSR2000] MSR 2000 Receiver
To: MSR2000@yahoogroups.com
Date: Friday, June 12, 2009, 6:18 PM

Hi all
I am looking for a UHF Receiver for the MSR2000 that will tune in the 440mhz band. I have a coupld of UHF receivers in the high end however they won't tune down to where I want to be. If anyone is looking for the 470mhz I have one if interested.
Thanks
Mike

63. Re: [MSR2000] MSR 2000 Receiver

Yahoo group: MSR2000
Date: 2009-06-13 17:01:20 UTC
From: mike
Topic: 61 Message: 63

Hey Ted
You still playing radio!! Wow good to hear from you. I am looking for a UHF receiver for MSR2000. I model that I am looking for TR616162A (450-470Mhz) also the main chassis were they set as repeaters? I might interested in that also. Let me know on the receiver number.
Thanks
Mike
----- Original Message -----
From: Ted Bleiman K9MDM - MDM Radio
To: MSR2000@yahoogroups.com
Sent: Saturday, June 13, 2009 12:36 PM
Subject: Re: [MSR2000] MSR 2000 Receiver

mike i have a complete msr2000 main chassis for repeater missing dpl card $125.00 + shipping
has all other cards
rx only $65.00 + post

Ted Bleiman K9MDM
MDM Radio " If its in stock...we've got it!"
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web http://www.mdmradio.com
email - mdmradio@yahoo.com <<< DIRECT ALL EMAIL

--- On Fri, 6/12/09, mike <mzfb@verizon.net> wrote:

From: mike <mzfb@...>
Subject: [MSR2000] MSR 2000 Receiver
To: MSR2000@yahoogroups.com
Date: Friday, June 12, 2009, 6:18 PM

Hi all
I am looking for a UHF Receiver for the MSR2000 that will tune in the 440mhz band. I have a coupld of UHF receivers in the high end however they won't tune down to where I want to be. If anyone is looking for the 470mhz I have one if interested.
Thanks
Mike

64. Re: [MSR2000] MSR 2000 Receiver

Yahoo group: MSR2000
Date: 2009-06-18 01:56:48 UTC
From: mike
Topic: 61 Message: 64

Ted
I like to get the receiver for now. Can you provide a total cost
Shipping to
Spotsylvania Va. 22553
Mike
----- Original Message -----
From: Ted Bleiman K9MDM - MDM Radio
To: MSR2000@yahoogroups.com
Sent: Saturday, June 13, 2009 12:36 PM
Subject: Re: [MSR2000] MSR 2000 Receiver

mike i have a complete msr2000 main chassis for repeater missing dpl card $125.00 + shipping
has all other cards
rx only $65.00 + post

Ted Bleiman K9MDM
MDM Radio " If its in stock...we've got it!"
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web http://www.mdmradio.com
email - mdmradio@... <<< DIRECT ALL EMAIL

--- On Fri, 6/12/09, mike <mzfb@...> wrote:

From: mike <mzfb@...>
Subject: [MSR2000] MSR 2000 Receiver
To: MSR2000@yahoogroups.com
Date: Friday, June 12, 2009, 6:18 PM

Hi all
I am looking for a UHF Receiver for the MSR2000 that will tune in the 440mhz band. I have a coupld of UHF receivers in the high end however they won't tune down to where I want to be. If anyone is looking for the 470mhz I have one if interested.
Thanks
Mike

65. Ops

Yahoo group: MSR2000
Date: 2009-06-18 01:59:23 UTC
From: mike
Topic: 65 Message: 65

Sorry fellows
I meant to send a direct message to Ted concering a price.
Thanks
Mike

66. MSR2000 to a repeater

Yahoo group: MSR2000
Date: 2009-07-14 14:01:13 UTC
From: Ron Wright
Topic: 66 Message: 66

hi all,

I am about to convert my MSR2000 to a repeater and interface to a controller, Ham controller.

I've looked on the Repeater-Builders site, a most blessed contrubition to Ham Radio. However, all I see are conversions that use a lot and are more specific to one controller. This can be translated to other controllers, but after studing the MSR2000 manual seems little good engineering was done with these conversions in that they took a workable, but hard path.

I am going to try to do a conversion that will go with about any controller and use as little of the Motorola cards and gear for I think little is needed.

This is what I am going to try:

Cards:
Line Driver
Station Control Module
R1 Audio (R1 Audio & Squelch Module TRN9688 or 89)
PL (Tone Private-Line Encode-Decode Module TRN5073)

PL card needed only if need PL and wish to use Motorola's reed version. If using something else like Comm Spec TS64DS then not needed. The PL card also has PL filter for receiver and is selected by removing a jumer on the R1 Audio card (the jumper routes around the PL filter if in).

All that is needed for use with an external controller is there. The COS (low) from R1 squelch circuit, PL decoder and encoder (has external on/off control of encode and decode logic output), rx audio (de-emphasised), ptt (low) and tx audio. All connected to back plane.

One issue is if the PL module can use one reed if the encode and decode freq are the same and encode & decode at same time. Does anyone know if it will do encode and decode at the same time or if wanting to do this muse we use 2 reeds, one for decode and one for encode. If different freq then no option but 2 reeds.

Any advice on this conversion would be welcome. This is my first MSR2000. Have been using Micors and GE Exec IIs, but excellent gear.

73, ron, n9ee/r

67. Re: [MSR2000] MSR2000 to a repeater

Yahoo group: MSR2000
Date: 2009-07-14 16:32:53 UTC
From: Larry Taylor
Topic: 66 Message: 67

Our club repeater uses only receive pl and it is past on through to the Tx. Only 1 pl is used.

Let us know what you did, and how it turned out. Don't forget to use Cavities!!
Larry Taylor KF6JBG
Home: cvrcsoaring (AT) earthlink (Dot) net

----- Original Message -----
From: Ron Wright
To: MSR2000@yahoogroups.com
Sent: Tuesday, July 14, 2009 7:01 AM
Subject: [MSR2000] MSR2000 to a repeater

hi all,

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I've looked on the Repeater-Builders site, a most blessed contrubition to Ham Radio. However, all I see are conversions that use a lot and are more specific to one controller. This can be translated to other controllers, but after studing the MSR2000 manual seems little good engineering was done with these conversions in that they took a workable, but hard path.

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73, ron, n9ee/r

68. Re: MSR2000 to a repeater

Yahoo group: MSR2000
Date: 2009-07-14 16:44:32 UTC
From: Ron Wright
Topic: 66 Message: 68

Larry,

Yes I guess one could simply pass PL thru the repeater. Most tx audio circuits will not pass PL very well due to it being such low freq and have a separate input for the PL encode. I prefer decoding, filtering the rcvr PL and then encoding from a on board encoder. But if it works then that is what matters.

I'll give out the info I come up with. The one issue still is wheather the "PL" card will encode and decode at same time when using one reed. It has provisions for a second encode reed, but if can do with one then the better.

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> ----- Original Message -----
> From: Ron Wright
> To: MSR2000@yahoogroups.com
> Sent: Tuesday, July 14, 2009 7:01 AM
> Subject: [MSR2000] MSR2000 to a repeater
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69. Re: [MSR2000] Re: MSR2000 to a repeater

Yahoo group: MSR2000
Date: 2009-07-14 17:38:34 UTC
From: WD7F - John in Tucson
Topic: 66 Message: 69

The MSR-2000 has separate reeds for tx and rx PL so it doesn't pass through unless you're doing it in an external controller.

I see the two schools of thought about converting a Motorola MSR-2000 machine. One....hook an external controller and eliminate all the unnecessary cards. Two....integrate with the squelch gate card and use the R1 and PL cards. IMHO, an external controller can't duplicate the squelch gate function designed by Motorola and maintain the noise immunity and just plain good audio through-put. I can't see how a simple op-amp with a RC de-emphasis circuit in the feedback can have the outstanding audio of the well designed Motorola original. I'm not an expert my any means and I have limited experience limited to an MSR-2000 conversion, an extensive conversion of a VHF high band Micor to 220 and a finally a Kenwood TS-820. However, I'll put the audio quaility of these three up against any other conversion. If you're interested you can see the links to the repeater conversions on www.wd7f.com . Nuff said !

de WD7F
John in Tucson

----- Original Message -----
From: "Ron Wright" <mccrpt@...>
To: <MSR2000@yahoogroups.com>
Sent: Tuesday, July 14, 2009 9:44 AM
Subject: [MSR2000] Re: MSR2000 to a repeater

> Larry,
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> Yes I guess one could simply pass PL thru the repeater. Most tx audio
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>> From: Ron Wright
>> To: MSR2000@yahoogroups.com
>> Sent: Tuesday, July 14, 2009 7:01 AM
>> Subject: [MSR2000] MSR2000 to a repeater
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> Yahoo! Groups Links
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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.375 / Virus Database: 270.13.13/2237 - Release Date: 07/14/09
05:56:00

70. Re: MSR2000 to a repeater

Yahoo group: MSR2000
Date: 2009-07-14 18:19:09 UTC
From: Ron Wright
Topic: 66 Message: 70

John,

Just as in the Mitrek mobile one reed can be used for both tx and rx. You are correct the MSR2000 has provisions for 2 reeds, but only one is necessary for same PL freq. The question is when using one reed will the PL card encode and decode at same time? The second reed is for when a different encode freq is needed, but maybe also when you need encode and decode at the same time. I guess I'll just have to try it.

I agree with you that Motorola and some other commercial rigs have excellent comm audio. Mot, GE and others learned long ago one does not need all that HiFi high freq stuff to have good voice comm. In fact it often gets in the way and interfers with voice comm. I've heard on my Micor repeater people talking about the difference between the input and output audio. The HiFi audio from the Ham rigs is to please the customer, but not address what is really important; being able to communicate in harsh noisey conditions.

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> ----- Original Message -----
> From: "Ron Wright" <mccrpt@...>
> To: <MSR2000@yahoogroups.com>
> Sent: Tuesday, July 14, 2009 9:44 AM
> Subject: [MSR2000] Re: MSR2000 to a repeater
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>

> > Larry,
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> >> From: Ron Wright
> >> To: MSR2000@yahoogroups.com
> >> Sent: Tuesday, July 14, 2009 7:01 AM
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>
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71. Re: MSR2000 to a repeater

Yahoo group: MSR2000
Date: 2009-07-14 20:20:06 UTC
From: Paul Caccamo
Topic: 66 Message: 71

Hi Ron, I've uploaded a file on how I hooked my repeater to an ARCOM RC210 controller. Works fine. 73 Paul

72. Re: [MSR2000] Re: MSR2000 to a repeater

Yahoo group: MSR2000
Date: 2009-07-14 20:52:43 UTC
From: WD7F - John in Tucson
Topic: 66 Message: 72

I dunno' if you can jumper it to make it encode with the receive reed. I douubt it. I'm using a different encode on the tx at the moment. Several months ago I had an R1 audio card problem and before I replaced the card I used a different PL for the tx to solve the problem and never put it back..hi hi. Nobody cares. The ones using tone squelch just programmed the new PL in their rigs and forgot about it.

Have fun...that's what it's all about.
de WD7F
John in Tucson

----- Original Message -----
From: "Ron Wright" <mccrpt@...>
To: <MSR2000@yahoogroups.com>
Sent: Tuesday, July 14, 2009 11:19 AM
Subject: [MSR2000] Re: MSR2000 to a repeater

> John,
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> Just as in the Mitrek mobile one reed can be used for both tx and rx. You
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>> From: "Ron Wright" <mccrpt@...>
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>> Sent: Tuesday, July 14, 2009 9:44 AM
>> Subject: [MSR2000] Re: MSR2000 to a repeater
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>> >> To: MSR2000@yahoogroups.com
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73. MSR Power Divider/Regulator

Yahoo group: MSR2000
Date: 2009-07-15 00:41:44 UTC
From: firefighteronduty
Topic: 73 Message: 73

I am looking for a replacement regulator board for the MSR-2000 Power supply. It is the board that is mounted in the lower left hand corner under the protective shield. It is the board that divides power and sends out 12Vdc and 5Vdc allowing you to fine trim the voltage.
Thanks
David Kaskie
KC9FAF

74. RE: [MSR2000] MSR2000 to a repeater

Yahoo group: MSR2000
Date: 2009-07-19 02:19:28 UTC
From: Sims, Ted
Topic: 66 Message: 74

In a MSR2000 repeater configuration, 2 reeds are needed on the PL card, even if transmit and receive PL tones are the same.

It is true that the Mitrek, or the MSR2000 configured as a base, uses one reed for both transmit and receive, but it can't do both at the same time.

I was never able to find reeds on 79.7, so the club repeater I work on has a couple of little PL boards made for the SP10 handheld, wired into the MSR2K PL card, bypassing much of the stock PL detector and generator circuitry. The SP10 boards use some variant of the MX165C, which supports reverse burst on transmit, so this function is preserved. The stock gyrator type PL elimination filter is used without modification. The little SP10 PL boards can be found on Ebay from time to time.

For what it's worth this particular repeater is set up using the Squelch Gate module, but unlike some conversions that go through the front of the card, we take signals from the backplane, routed through a harness to two db25 connectors on the side of the cabinet (One connects to a Link RLC-2a controller. The other connects to an LDG RVS-8 voter).

If I had to do it over, I would probably chuck most of the cards, add an audio delay, and let the controller do most of the work. I only say this because it's just less hardware to fuss with. Whatever cards you.do use, I suggest having spares on hand for _all_ of them.

Ted

AI4LV

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Ron Wright
Sent: Tuesday, July 14, 2009 10:01 AM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] MSR2000 to a repeater

hi all,

I am about to convert my MSR2000 to a repeater and interface to a controller, Ham controller.

I've looked on the Repeater-Builders site, a most blessed contrubition to Ham Radio. However, all I see are conversions that use a lot and are more specific to one controller. This can be translated to other controllers, but after studing the MSR2000 manual seems little good engineering was done with these conversions in that they took a workable, but hard path.

I am going to try to do a conversion that will go with about any controller and use as little of the Motorola cards and gear for I think little is needed.

This is what I am going to try:

Cards:
Line Driver
Station Control Module
R1 Audio (R1 Audio & Squelch Module TRN9688 or 89)
PL (Tone Private-Line Encode-Decode Module TRN5073)

PL card needed only if need PL and wish to use Motorola's reed version. If using something else like Comm Spec TS64DS then not needed. The PL card also has PL filter for receiver and is selected by removing a jumer on the R1 Audio card (the jumper routes around the PL filter if in).

All that is needed for use with an external controller is there. The COS (low) from R1 squelch circuit, PL decoder and encoder (has external on/off control of encode and decode logic output), rx audio (de-emphasised), ptt (low) and tx audio. All connected to back plane.

One issue is if the PL module can use one reed if the encode and decode freq are the same and encode & decode at same time. Does anyone know if it will do encode and decode at the same time or if wanting to do this muse we use 2 reeds, one for decode and one for encode. If different freq then no option but 2 reeds.

Any advice on this conversion would be welcome. This is my first MSR2000. Have been using Micors and GE Exec IIs, but excellent gear.

73, ron, n9ee/r

_____ NOD32 4252 (20090717) Information _____

This message was checked by NOD32 antivirus system.
http://www.eset.com

75. Re: MSR2000 to a repeater

Yahoo group: MSR2000
Date: 2009-07-19 02:47:59 UTC
From: Ron Wright
Topic: 66 Message: 75

Ted,

Thanks for the info.

I used only the R1 Audio and PL cards for my conversion. I used 2 reeds, one for encode and one for decode. I also drove the PL encodeon/off control from the controller for it has logic with timer for controlling a CTCSS tone encode with tail timer. I put in jumpers on the R1 card for carrier non-PL mode and simply drive the controller for PL use. I set up the R1 Audio board so it would pass the rcvr audio thru the PL board high pass filter removing the users PL. I also used the R1 Audio card's de-emphasis circuit between the rcvr and controller. If one did not have PL board I would have used something like the Comm Spec TS64DS. Getting the reeds can be a problem, but I had what I wanted.

I did have a problem of getting the PL logic from the PL card. Seems there is somewhere in the unit loading down this signal, Pin 5. Pin 5 is isolated from the logic transistor with a large resistor so I jumpered the logic transistor output directly to pin 4 (unused) and got good high going PL decode logic signal. All else was easy for the encode.

Some do use the SQ Gate card. I like this card, but I choose to use the MSR2000 R1 Audio squelch circuit. Works great.

I too think like you in that use as few cards as you can and let a external controller do the work. We Hams are different from the commercial world, hi.

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "Sims, Ted" <ted@...> wrote:
>
> In a MSR2000 repeater configuration, 2 reeds are needed on the PL card, even
> if transmit and receive PL tones are the same.
>
>
>
> It is true that the Mitrek, or the MSR2000 configured as a base, uses one
> reed for both transmit and receive, but it can't do both at the same time.
>
>
>
> I was never able to find reeds on 79.7, so the club repeater I work on has a
> couple of little PL boards made for the SP10 handheld, wired into the MSR2K
> PL card, bypassing much of the stock PL detector and generator circuitry.
> The SP10 boards use some variant of the MX165C, which supports reverse burst
> on transmit, so this function is preserved. The stock gyrator type PL
> elimination filter is used without modification. The little SP10 PL boards
> can be found on Ebay from time to time.
>
>

>
> For what it's worth this particular repeater is set up using the Squelch
> Gate module, but unlike some conversions that go through the front of the
> card, we take signals from the backplane, routed through a harness to two
> db25 connectors on the side of the cabinet (One connects to a Link RLC-2a
> controller. The other connects to an LDG RVS-8 voter).
>
>
>
> If I had to do it over, I would probably chuck most of the cards, add an
> audio delay, and let the controller do most of the work. I only say this
> because it's just less hardware to fuss with. Whatever cards you.do use, I
> suggest having spares on hand for _all_ of them.
>
>
>
> Ted
>
> AI4LV
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> _____
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> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
> Ron Wright
> Sent: Tuesday, July 14, 2009 10:01 AM
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] MSR2000 to a repeater
>
>
>
>
>
>
>
> hi all,
>
> I am about to convert my MSR2000 to a repeater and interface to a
> controller, Ham controller.
>
> I've looked on the Repeater-Builders site, a most blessed contrubition to

> Ham Radio. However, all I see are conversions that use a lot and are more
> specific to one controller. This can be translated to other controllers, but
> after studing the MSR2000 manual seems little good engineering was done with
> these conversions in that they took a workable, but hard path.
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> I am going to try to do a conversion that will go with about any controller
> and use as little of the Motorola cards and gear for I think little is
> needed.
>
> This is what I am going to try:
>
> Cards:
> Line Driver
> Station Control Module
> R1 Audio (R1 Audio & Squelch Module TRN9688 or 89)
> PL (Tone Private-Line Encode-Decode Module TRN5073)
>
> PL card needed only if need PL and wish to use Motorola's reed version. If
> using something else like Comm Spec TS64DS then not needed. The PL card also
> has PL filter for receiver and is selected by removing a jumer on the R1
> Audio card (the jumper routes around the PL filter if in).
>
> All that is needed for use with an external controller is there. The COS
> (low) from R1 squelch circuit, PL decoder and encoder (has external on/off
> control of encode and decode logic output), rx audio (de-emphasised), ptt
> (low) and tx audio. All connected to back plane.
>
> One issue is if the PL module can use one reed if the encode and decode freq
> are the same and encode & decode at same time. Does anyone know if it will
> do encode and decode at the same time or if wanting to do this muse we use 2
> reeds, one for decode and one for encode. If different freq then no option
> but 2 reeds.
>
> Any advice on this conversion would be welcome. This is my first MSR2000.
> Have been using Micors and GE Exec IIs, but excellent gear.
>
> 73, ron, n9ee/r
>
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>
> _____ NOD32 4252 (20090717) Information _____
>
> This message was checked by NOD32 antivirus system.
> http://www.eset.com
>

76. reeds

Yahoo group: MSR2000
Date: 2009-07-19 17:16:45 UTC
From: Ron Wright
Topic: 76 Message: 76

hi all,

Looking for Mitrek PL reeds, vibrasponder KLN6209A 146.2 Hz???

Contact me off board at mccrpt@...

ron

77. PL REEDS

Yahoo group: MSR2000
Date: 2009-07-20 11:53:28 UTC
From: firefighteronduty
Topic: 77 Message: 77

I am looking for two PL tone reeds 173.8 for the MSR2000. Please let me know if you have them. Thanks. I have two to trade you I will have to check to see what they are.

David Kaskie
KC9FAF

78. Re: PL REEDS

Yahoo group: MSR2000
Date: 2009-07-21 01:05:24 UTC
From: Ron Wright
Topic: 77 Message: 78

David,

I have one Vibrasender, TLN6824A 173.8 Hz Mitrek/MSR2000 reed for which I have no use for. Do not know if good, but have no reason to believe it is not.

I am looking for Vibrasponders or senders for 146.2 Hz. However, if you don't have no problem. Give me your mailing address and I'll send this 173.8 Hz reed to you no charge.

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "firefighteronduty" <DKaskie@...> wrote:
>
> I am looking for two PL tone reeds 173.8 for the MSR2000. Please let me know if you have them. Thanks. I have two to trade you I will have to check to see what they are.
>
> David Kaskie
> KC9FAF
>

79. TRN5119 A or B

Yahoo group: MSR2000
Date: 2009-07-23 22:40:06 UTC
From: firefighteronduty
Topic: 79 Message: 79

Hi all. I am in need of the MSR-2000 auxiliary regulator board factory mounted under the power supply.....OR if anyone has a component cross reference to try to salvage the one I have. I think some of the power regulator zener diodes have gone bad, and need to replace them with factory spec diodes the only spec I have is the pass voltage, no amperage, or rating. Only part number I can find is motorola part #. Just having a new board would be great.!

David Kaskie
KC9FAF

80. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2009-07-24 13:36:26 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 80

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /MSR2000 Repeater Conversion.doc
Uploaded by : lt_wright_flg <mccrpt@...>
Description : MSR2000 Repeater Conversion

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/MSR2000%20Repeater%20Conversion.doc

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/general.htmlfiles

Regards,

lt_wright_flg <mccrpt@...>
```

81. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2009-07-24 14:20:55 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 81

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /MSR2000 Configuration Oct. 9, 2007 [VE1BXK].docm
Uploaded by : lt_wright_flg <mccrpt@...>
Description : MSR2000 Repeater Conversion by VE1BXK

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/MSR2000%20Configuration%20Oct.%209%2C%202007%20%5BVE1BXK%5D.docm

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/general.htmlfiles

Regards,

lt_wright_flg <mccrpt@...>

82. repeater conversion file

Yahoo group: MSR2000
Date: 2009-07-24 16:14:54 UTC
From: Ron Wright
Topic: 82 Message: 82

Hi all,

In FILES I added a document for converting the MSR2000 to a repeater with use of an external controller, the way we Hams do it.

Might take a look at it and give any comments. Need to have these things right for do not wish to miss lead.

73, ron, n9ee/r

83. audio problem

Yahoo group: MSR2000
Date: 2009-08-09 13:34:59 UTC
From: Ron Wright
Topic: 83 Message: 83

Hi all,

I just installed an MSR2000 for my VHF repeater. A problem has popped up and maybe someone here knows what is going on.

After the repeater has set for a time, say 1 hour, all audio including the PL encode goes low, 1/3 normal, and all audio is distorted. The user audio is distorted to the point one thinks they are off freq, way off.

After a user comes on for from 10 sec to sometimes taking 30 sec the audio suddenly pops to normal and stays until a no use time occurs and the problem comes back. This recovery is instant, not gradually improving.

The repeater stays on frequency. The room temp is constant 65 deg F with lots of air conditioning.

Like most of these problems it is good to be at the gear when the problem occurs, but Murrphy is alive and kicking.

I think it is in the exciter and since the tx stays on freq the 9.4V from the power supply and on board exciter reg is working.

Any ideas.

73, ron, n9ee/r

ps I plan on replacing the exciter and hope this solves the problem, but still want the now problem exciter to be repaired. This is assuming the exciter is the problem.

84. Re: [MSR2000] audio problem

Yahoo group: MSR2000
Date: 2009-08-09 18:41:47 UTC
From: Paul Caccamo, VA3PC
Topic: 83 Message: 84

Ron, in the cases of intermittent audio on a majority of the MSR2000's in our radio system a few years back, it was traced to solder joints on the back plane.
Years of vibration when the diesel kicked in was thought to be the culprit.
Pop out the boards, and resolder the pins (particularly around the R1 audio card and exciter), on any cardslot that has a card inserted..
73
Paul, VA3PC

85. Re: audio problem

Yahoo group: MSR2000
Date: 2009-08-09 19:47:04 UTC
From: Ron Wright
Topic: 83 Message: 85

Paul,

Ok thanks for the info. I'll try a little mechanical maintenance.

On the boards sometimes it is hard to tell if seated all the way. Some of the card cage boards required lots of mussel to remove. When putting them back in one is careful not to force too much, but maybe need more.

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "Paul Caccamo, VA3PC" <va3pc@...> wrote:
>
> Ron, in the cases of intermittent audio on a majority of the MSR2000's in our radio system a few years back, it was traced to solder joints on the back plane.
> Years of vibration when the diesel kicked in was thought to be the culprit.
> Pop out the boards, and resolder the pins (particularly around the R1 audio card and exciter), on any cardslot that has a card inserted..
> 73
> Paul, VA3PC
>

86. Re: [MSR2000] audio problem

Yahoo group: MSR2000
Date: 2009-08-09 22:29:22 UTC
From: Mike Morris WA6ILQ
Topic: 83 Message: 86

Use a good strong magnifying glass and check the backplane
pins on the exciter socket for cracks between the pin and the trace.
Then do the same thing on the pins on the exciter board. I'll bet
that at one point your station had a bent pin that someone straightened.
The force used to bend and straighten the pin frequently cracks the solder.
Just put a little flux on the surface of the solder then reflow it.

Mike WA6ILQ

At 06:34 AM 08/09/09, you wrote:
>Hi all,
>
>I just installed an MSR2000 for my VHF repeater. A problem has
>popped up and maybe someone here knows what is going on.
>
>After the repeater has set for a time, say 1 hour, all audio
>including the PL encode goes low, 1/3 normal, and all audio is
>distorted. The user audio is distorted to the point one thinks they
>are off freq, way off.
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>After a user comes on for from 10 sec to sometimes taking 30 sec the
>audio suddenly pops to normal and stays until a no use time occurs
>and the problem comes back. This recovery is instant, not gradually improving.
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>The repeater stays on frequency. The room temp is constant 65 deg F
>with lots of air conditioning.
>
>Like most of these problems it is good to be at the gear when the
>problem occurs, but Murrphy is alive and kicking.
>
>I think it is in the exciter and since the tx stays on freq the 9.4V
>from the power supply and on board exciter reg is working.
>
>Any ideas.
>
>73, ron, n9ee/r
>
>ps I plan on replacing the exciter and hope this solves the problem,
>but still want the now problem exciter to be repaired. This is
>assuming the exciter is the problem.
>
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>Yahoo! Groups Links
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87. board needed

Yahoo group: MSR2000
Date: 2009-08-10 02:05:31 UTC
From: Ron Wright
Topic: 87 Message: 87

hi all,

I am looking for the R2 Audio plug in to the horizontal part of the MSR2000 card cage.

Wonder if anyone has one they will sell.

73, ron, n9ee/r

88. Re: board needed

Yahoo group: MSR2000
Date: 2009-08-11 01:17:32 UTC
From: BJ
Topic: 87 Message: 88

If you don't find one you can use another R1 audio module and add a Com Spec tone decoder/COS to it.

The only major operational difference is it has the PL functionality on the card rather than using the station PL card in the next slot.

If your second receiver is carrier squelch its pretty much plug and play.

--- In MSR2000@yahoogroups.com, "Ron Wright" <mccrpt@...> wrote:
>
> hi all,
>
> I am looking for the R2 Audio plug in to the horizontal part of the MSR2000 card cage.
>
> Wonder if anyone has one they will sell.
>
> 73, ron, n9ee/r
>

89. 141.3 PL reeds needed

Yahoo group: MSR2000
Date: 2009-08-11 01:50:52 UTC
From: Jim Lange
Topic: 89 Message: 89

I am looking for 141.3 PL reeds for the MSR 2000. An RX reed alone would be good, a pair would be better. I can trade 127.3 reeds or purchase if the price is right.

tnx,

Jim

90. Re: board needed

Yahoo group: MSR2000
Date: 2009-08-11 09:53:14 UTC
From: Ron Wright
Topic: 87 Message: 90

Joe,

I am using an R1 card for the repeater and have looked at it and seems the pin out to the back plane is about same as R2, but with PL decode. Since the R2 card had the PL and all I needed I wanted to go this way. Also I was concerned with the R1 card in this slot doing things to the repeater side so wanted to be safe. You know how Mot did things where the cards inter react.

The main things I need are PL decode, voice audio and the sq circuit and the R2 card gives these making life so much easier.

My purpose for the 2nd rcvr is for UHF control link on a VHF repeater. I now have a Micor rack mount rcvr I've used for over 10 years, but thought using UHF rcvr in sec rcvr slot and R2 card to MSR2000 would be neater package.

Thanks for the info.

73, ron, n9eer

--- In MSR2000@yahoogroups.com, "BJ" <microwavetechnology@...> wrote:
>
> If you don't find one you can use another R1 audio module and add a Com Spec tone decoder/COS to it.
>
> The only major operational difference is it has the PL functionality on the card rather than using the station PL card in the next slot.
>
> If your second receiver is carrier squelch its pretty much plug and play.
>
>
>
> --- In MSR2000@yahoogroups.com, "Ron Wright" <mccrpt@> wrote:
> >
> > hi all,
> >
> > I am looking for the R2 Audio plug in to the horizontal part of the MSR2000 card cage.
> >
> > Wonder if anyone has one they will sell.
> >
> > 73, ron, n9ee/r
> >
>

91. Re: board needed

Yahoo group: MSR2000
Date: 2009-08-11 15:48:29 UTC
From: Ron Wright
Topic: 87 Message: 91

hi all,

I just purchased an R2 Audio card on e-bay for $30 from someone who evidently has parted out a MSR2000 and is selling the parts. He has been listing cards for buy now $99 ea. He does admit he knows little about what he is selling. But that if often e-bay and cannot blame anyone trying to get what they can. I made an offer and he accepted it.

73, ron, n9ee/r

92. interface

Yahoo group: MSR2000
Date: 2009-08-13 22:03:33 UTC
From: mike
Topic: 92 Message: 92

I am using an MSR2000 for remote receiver link to my 6 meter repeater. I was interested in Rons posts about the second receiver. I'm using a PURAC 5000 receiver self with a lowband micor modified receiver in it for 6 meters.
I'd like to take the audio from this self and interface it at the second receiver audo pin on the backplane. I am planning on using the 1st receiver for system control at the site, but if could switch audio paths and put the 6 meter receiver at R1 and R2 with UHF receiver for control that would work better for me. Not sure if there would be an inpedance problem with the PURAC Receiver self or not. Anybody have any ideas about the interface.
Thanks
Mike

93. connectors

Yahoo group: MSR2000
Date: 2009-08-15 01:40:55 UTC
From: Ron Wright
Topic: 93 Message: 93

hi all,.

I am in need for some of the MSR2000 back plane connectors. What might be a source or does anyone know the manufacture.

73, ron, n9ee/r

94. preamp

Yahoo group: MSR2000
Date: 2009-08-15 12:58:12 UTC
From: Ron Wright
Topic: 94 Message: 94

Hi all,

I am looking for the plug in pre-amps for the Mitrek/MSR2000. Let me know if you have one for sale.

I have a few Micor VHF pre-amps, tune from 130-160 MHz. 2 cavity helical front end. Must tune to desired freq. When tuned at freq gain about 18 db, +/-2MHz down 10 db, +/-4MHz down 20 db. Has pretty good skirts. For Micor tuned to 0.5uV will give about 6db improvement to 0.25uV. The pre-amp was swept and tested with spectrum anal with tracking gen. I don't need it any more and thought someone with a repeater would need. Can be adapted to about any repeater. $30.

Does anyone use the Micor as mobile any more. I do still have 2 Mitreks in service, one base and one in my mobile. Also have one on 52.525, but no place to install it, hi. Just replaced my Micor repeater with MSR2000. Still Micors great radio. Aint it great most Hams do not know what they are.

73, ron, n9ee/r

95. Re: interface

Yahoo group: MSR2000
Date: 2009-08-15 13:08:32 UTC
From: Ron Wright
Topic: 92 Message: 95

Mike,

The UHF receiver should just plug into the cage and the MSR2000 seems to be made to work with a R2 card in the middle horizontal slot. The R2 card also has PL built in requiring a reed for the 2nd/UHF receiver. If using for control then you could use about any PL freq/reed since mainly used only by you.

The R1 and R2 audio input is rather high impedance, above 10k so would not think a loading problem. The only thing is you might have to make sure the UHF receiver audio does not go out on link tx, unless you want as a 2nd input. I did this with Micor using one PL for control and another PL to select as 2nd input. Worked great for over 10 years.

73, ron, n9ee/r

ps aint it great to call tone PL. Seems out of place to do on other boards, hi. Here we can talk Motorola.

--- In MSR2000@...m, "mike" <mzfb@...> wrote:
>
> I am using an MSR2000 for remote receiver link to my 6 meter repeater. I was interested in Rons posts about the second receiver. I'm using a PURAC 5000 receiver self with a lowband micor modified receiver in it for 6 meters.
> I'd like to take the audio from this self and interface it at the second receiver audo pin on the backplane. I am planning on using the 1st receiver for system control at the site, but if could switch audio paths and put the 6 meter receiver at R1 and R2 with UHF receiver for control that would work better for me. Not sure if there would be an inpedance problem with the PURAC Receiver self or not. Anybody have any ideas about the interface.
> Thanks
> Mike
>

96. Re:connectors

Yahoo group: MSR2000
Date: 2009-08-15 13:09:04 UTC
From: Tom W2MN
Topic: 93 Message: 96

Are you asking about the connector / pins which are part of the backplane or are you asking about the connectors on the cards that plug into the backplane?

97. Re:connectors

Yahoo group: MSR2000
Date: 2009-08-15 13:25:54 UTC
From: Ron Wright
Topic: 93 Message: 97

Tom,

I am looking for the connectors that go onto the back plane that the cards will plug into. Not board connectors although would like some for spares.

I have use for 2nd rcvr in MSR2000 and the R2 card and noticed my MSR2000 was manufactured without the connectors. Guess not needed for that unit so Motorola did not put in, either to save money or wanted to make sure user could not add.

I am thinking about buying complete back plane. One was on e-bay, but only need 2 connectors and the back plane was going for $50 including shipping. Thought might find a source for the connectors.

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "Tom W2MN" <w2mn@...> wrote:
>
> Are you asking about the connector / pins which are part of the backplane or
> are you asking about the connectors on the cards that plug into the
> backplane?
>

98. Re:connectors

Yahoo group: MSR2000
Date: 2009-08-16 21:29:02 UTC
From: Tom W2MN
Topic: 93 Message: 98

Hi Ron,

One of the manufacturers of the connector system (board and backplane) is molex. www.molex.com <http://www.molex.com/>

I have used the molex connector (3x8pin) to repair and modify MSR2000 boards without any problem. The part that I have used is

http://www.molex.com/molex/products/datasheet.jsp?part=active/0009521086_PCB_RECEPTACLES.xml <http://www.molex.com/molex/products/datasheet.jsp?part=active/0009521086_PCB_RECEPTACLES.xml&channel=Products&Lang=en-US> &channel=Products&Lang=en-US

part number 0009521086

I never had the experience to put the connector pins on this backplane but the strips I point to here are compatible and will do the job. Note that they come with different number of pins in the set. I would get the 8 pin set (3x8). It is common practice in the backplane manufacturing business to press fit the connector into the holes with alignment tools and a press. I don't know if this is the case here. If you find that they will not go in with a reasonable amount of force, cut the connector in half (make 4 pin sets) and try it again; less pins = less force. If you have to really press these in, I probably would carefully cut off the plastic friction plate (rubs on to the board connector) to get more working room, grab the pins with a wide plier (like sheetmetal bender). The only purpose it serves is to keep the board from vibrating out of the card slot.

Also be aware that the original MSR2000 pins are about 3/8 inch long in the back so you can actually plug a card into it (flipped around) to do card level debugging. The pins here will be really short and probably not allow you to do that. If your application requires it, the info I'm providing should be good enough to track down another manufacturer.

http://www.molex.com/molex/products/listview.jsp?query=5273 <http://www.molex.com/molex/products/listview.jsp?query=5273&path=cHome%23%23-1%23%23-1%7E%7EncPCBHEADERS%23%230%23%237&offset=0&autoNav=1&sType=s&filter=&fs=&channel=Products&Lang=en-US> &path=cHome%23%23-1%23%23-1%7E%7EncPCBHEADERS%23%230%23%237&offset=0&autoNav=1&sType=s&filter=&fs=&channel=Products&Lang=en-US

http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml <http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml&channel=Products&Lang=en-US> &channel=Products&Lang=en-US

part number
<http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml&channel=Products&Lang=en-US> 0009652088

Hope this helps.

Regards,

Tom

99. Re:connectors

Yahoo group: MSR2000
Date: 2009-08-17 12:56:20 UTC
From: Ron Wright
Topic: 93 Message: 99

Tom,

Thanks for the info. I knew the connector was out there. I have Digi-Key cat and they give good drawings of connectors and am sure they carry these.

I assume one can gang these side by side making whatever configuration you need to get to say 24 pins???

Also would need or mod to get pins to PCB backplane being vertical mount.

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "Tom W2MN" <w2mn@...> wrote:
>
> Hi Ron,
>
>
>
> One of the manufacturers of the connector system (board and backplane) is
> molex. www.molex.com <http://www.molex.com/>
>
>
>
>
>
> I have used the molex connector (3x8pin) to repair and modify MSR2000 boards
> without any problem. The part that I have used is
>
>
>
> http://www.molex.com/molex/products/datasheet.jsp?part=active/0009521086_PCB
> _RECEPTACLES.xml
> <http://www.molex.com/molex/products/datasheet.jsp?part=active/0009521086_PC
> B_RECEPTACLES.xml&channel=Products&Lang=en-US> &channel=Products&Lang=en-US
>
>
>
> part number 0009521086
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>
> I never had the experience to put the connector pins on this backplane but
> the strips I point to here are compatible and will do the job. Note that
> they come with different number of pins in the set. I would get the 8 pin
> set (3x8). It is common practice in the backplane manufacturing business to
> press fit the connector into the holes with alignment tools and a press. I
> don't know if this is the case here. If you find that they will not go in
> with a reasonable amount of force, cut the connector in half (make 4 pin
> sets) and try it again; less pins = less force. If you have to really press
> these in, I probably would carefully cut off the plastic friction plate
> (rubs on to the board connector) to get more working room, grab the pins
> with a wide plier (like sheetmetal bender). The only purpose it serves is to
> keep the board from vibrating out of the card slot.
>
>
>
> Also be aware that the original MSR2000 pins are about 3/8 inch long in the
> back so you can actually plug a card into it (flipped around) to do card
> level debugging. The pins here will be really short and probably not allow
> you to do that. If your application requires it, the info I'm providing
> should be good enough to track down another manufacturer.
>
>
>
> http://www.molex.com/molex/products/listview.jsp?query=5273
> <http://www.molex.com/molex/products/listview.jsp?query=5273&path=cHome%23%2
> 3-1%23%23-1%7E%7EncPCBHEADERS%23%230%23%237&offset=0&autoNav=1&sType=s&filte
> r=&fs=&channel=Products&Lang=en-US>
> &path=cHome%23%23-1%23%23-1%7E%7EncPCBHEADERS%23%230%23%237&offset=0&autoNav
> =1&sType=s&filter=&fs=&channel=Products&Lang=en-US
>
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> http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB
> _HEADERS.xml
> <http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PC
> B_HEADERS.xml&channel=Products&Lang=en-US> &channel=Products&Lang=en-US
>
>
>
>
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> part number
> <http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PC
> B_HEADERS.xml&channel=Products&Lang=en-US> 0009652088
>

```
>
>
> Hope this helps.
>
> Regards,
>
>
>
> Tom
>
```

100. Re:connectors

Yahoo group: MSR2000
Date: 2009-08-18 16:49:11 UTC
From: Tom W2MN
Topic: 93 Message: 100

Hi Ron,

The second part number and url (in my original posting) is for the straight pins that go into the backplane. These are compatible with the PCB connector pins. Yes both the PCB connectors and the backplane connectors/pins are designed to be assembled end to end to make the total length needed.

Also, I commented that the backplane originals may have been press fit because this is a common manufacturing practice. Since you will be soldering these in place by hand that is not important as long as you can hold the connector in place until you get at least 1 pin soldered. If the pins fit tight in the holes, you can simply just polish or file or shave a very small amount off the corner of each pin to make it fit looser. Shave only the corner; not the flat. The common interference design is usually less that .001 inch so you only need to take the smallest amount off.

http://www.molex.com/molex/products/listview.jsp?query=5273
<http://www.molex.com/molex/products/listview.jsp?query=5273&path=cHome%23%23-1%23%23-1%7E%7EncPCBHEADERS%23%230%23%237&offset=0&autoNav=1&sType=s&filter=&fs=&channel=Products&Lang=en-US>
&path=cHome%23%23-1%23%23-1%7E%7EncPCBHEADERS%23%230%23%237&offset=0&autoNav=1&sType=s&filter=&fs=&channel=Products&Lang=en-US

http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml
<http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml&channel=Products&Lang=en-US> &channel=Products&Lang=en-US

part number
<http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml&channel=Products&Lang=en-US> 0009652088

Tom

101. Re:connectors

Yahoo group: MSR2000
Date: 2009-08-18 17:07:00 UTC
From: Tom W2MN
Topic: 93 Message: 101

Hi Ron (again),

I just noticed that the URL I included doesn't seem to work when passed thru the yahoogroup. I don't understand why (maybe too long). For both connectors, I've included the actual part number.

Just go to the MOLEX website and do a search for the part number. It will find the part page without any problem.

PCB CONNECTOR part number
<http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml&channel=Products&Lang=en-US> 0009521086

BACKPLANE CONNECTOR (straight pins) part number
<http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml&channel=Products&Lang=en-US> 0009652088

Sorry for the inconvenience / confusion.

Tom

102. Re: [MSR2000] Re:connectors

Yahoo group: MSR2000
Date: 2009-08-18 18:14:56 UTC
From: Ron Wright
Topic: 93 Message: 102

Tom,

I got the URL for Molex and also for the part page for the connector. They worked fine.

However, this connector would be for the board. I am trying to find the mate to it for PCBs. I need the end that goes on the back plane. My back plane was built without a couple of connectors for items I want to use.

Thanks for the info.

I am trying to work up a Molex connector parts list for the MSR2000. Not all connectors like some power, but the PCB connectors. The one you gave is good. I would try to use the 10 or 12 pin as used by Motorola.

I am also working on a document for adding a second receiver to the MSR2000.

73, ron, n9ee/r

Ron Wright, N9EE
BSEE
MICRO COMPUTER CONCEPTS
727-376-6575
Owner 146.64 repeater, highest in Tampa Bay, FL
No tone, all are welcome.

Aug 18, 2009 01:10:49 PM, MSR2000@yahoogroups.com wrote:

==========

Hi Ron (again),

I just noticed that the URL I included doesn’t seem towork when passed thru the yahoogroup. I don’t understand why (maybe toolong). For both connectors, I’ve included the actual part number.

Just go to the MOLEX website and do a search for the partnumber. It will find the part page without any problem.

PCB CONNECTORpart number 0009521086

BACKPLANE CONNECTOR (straight pins) partnumber 0009652088

Sorry for the inconvenience / confusion.

Tom

103. Re: [MSR2000] Re:connectors

Yahoo group: MSR2000
Date: 2009-08-18 18:19:46 UTC
From: Ron Wright
Topic: 93 Message: 103

Tom,

Yes the URL for both header and mate come thru. That is exactly what I am looking for. I will go to Digi-Key cat and get the exact versions I need. I think I will look for 10 and 12 pin versions.

Again thanks for much.

It would be good to get this info for the MSR2000 yahoo board.

73, ron, n9ee/r

Aug 18, 2009 12:50:08 PM, MSR2000@yahoogroups.com wrote:

==========

Hi Ron,

The second part number and url (in my original posting) isfor the straight pins that go into the backplane. These are compatible with thePCB connector pins. Yes both the PCB connectors and the backplaneconnectors/pins are designed to be assembled end to end to make the totallength needed.

Also, I commented that the backplane originals may have beenpress fit because this is a common manufacturing practice. Since you will besoldering these in place by hand that is not important as long as you can holdthe connector in place until you get at least 1 pin soldered. If the pins fittight in the holes, you can simply just polish or file or shave a very smallamount off the corner of each pin to make it fit looser. Shave only the corner;not the flat. The common interference design is usually less that .001 inch soyou only need to take the smallest amount off.

http://www.molex.com/molex/products/listview.jsp?query=5273&path=cHome%23%23-1%23%23-1%7E%7EncPCBHEADERS%23%230%23%237&offset=0&autoNav=1&sType=s&filter=&fs=&channel=Products&Lang=en-US

http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml&channel=Products&Lang=en-US

part number 0009652088

Tom

104. Re: [MSR2000] Re:connectors

Yahoo group: MSR2000
Date: 2009-08-18 18:33:27 UTC
From: Ron Wright
Topic: 93 Message: 104

Tom,

Have you verified that if one uses one of these connectors for the back plane a regular MSR2000 board with Mot supplies connectors will mate properly???

73, ron, n9ee/r

Ron Wright, N9EE
BSEE
MICRO COMPUTER CONCEPTS
727-376-6575
Owner 146.64 repeater, highest in Tampa Bay, FL
No tone, all are welcome.

Aug 18, 2009 12:50:08 PM, MSR2000@yahoogroups.com wrote:

==========

Hi Ron,

The second part number and url (in my original posting) isfor the straight pins that go into the backplane. These are compatible with thePCB connector pins. Yes both the PCB connectors and the backplaneconnectors/pins are designed to be assembled end to end to make the totallength needed.

Also, I commented that the backplane originals may have beenpress fit because this is a common manufacturing practice. Since you will besoldering these in place by hand that is not important as long as you can holdthe connector in place until you get at least 1 pin soldered. If the pins fittight in the holes, you can simply just polish or file or shave a very smallamount off the corner of each pin to make it fit looser. Shave only the corner;not the flat. The common interference design is usually less that .001 inch soyou only need to take the smallest amount off.

http://www.molex.com/molex/products/listview.jsp?query=5273&path=cHome%23%23-1%23%23-1%7E%7EncPCBHEADERS%23%230%23%237&offset=0&autoNav=1&sType=s&filter=&fs=&channel=Products&Lang=en-US

http://www.molex.com/molex/products/datasheet.jsp?part=active/0009652088_PCB_HEADERS.xml&channel=Products&Lang=en-US

part number 0009652088

Tom

105. Re: connectors

Yahoo group: MSR2000
Date: 2009-08-19 13:40:52 UTC
From: Tom W2MN
Topic: 93 Message: 105

Hi Ron,

Glad you found the backplane connectors / pins part number I was trying to point to.

I have used the PCB connectors several times and they appear to be an exact replacement for the originals (same contacts, same plastic).

The ones I identified for the backplane are the ones Molex identifies as the compatible mate for those connectors. I did measure (with vernier caliper) the width / length of a couple backplane pins on my MSR2000 and compared to the molex drawing. The front pin length and pin width matched the engineering drawings, so I'm confident that those are the ones. Fortunately, I have never had to play with actually installing the backplane pins on the MSR2000. If I had to do the job, those are the ones I would use.

Tom

106. Re: [MSR2000] Re: connectors

Yahoo group: MSR2000
Date: 2009-08-19 15:13:13 UTC
From: Ron Wright
Topic: 93 Message: 106

Tom,

Yes the connectors you pointed out look very similar to the the ones used on the MSR2000. I am going to put together an order for both back plane and board connectors this week.

Thanks so much for your efforts.

73, ron, n9ee/r

Ron Wright, N9EE
BSEE
MICRO COMPUTER CONCEPTS
727-376-6575
Owner 146.64 repeater, highest in Tampa Bay, FL
No tone, all are welcome.

Aug 19, 2009 09:44:48 AM, MSR2000@yahoogroups.com wrote:

==========

Hi Ron,

Glad you found the backplane connectors / pins part number Iwas trying to point to.

I have used the PCB connectors several times and they appearto be an exact replacement for the originals (same contacts, same plastic).

The ones I identified for the backplane are the ones Molex identifiesas the compatible mate for those connectors. I did measure (with verniercaliper) the width / length of a couple backplane pins on my MSR2000 and comparedto the molex drawing. The front pin length and pin width matched theengineering drawings, so I’m confident that those are the ones. Fortunately,I have never had to play with actually installing the backplane pins on theMSR2000. If I had to do the job, those are the ones I would use.

Tom

107. ch ele schmatic

Yahoo group: MSR2000
Date: 2009-08-27 19:46:04 UTC
From: lt_wright_flg
Topic: 107 Message: 107

hi all,

I would like the schematic of the Mitrek or MSR2000 ch elements, KXN1086 or KXN1088.

Any one have a source.

73, ron, n9ee/r

108. card guides

Yahoo group: MSR2000
Date: 2009-09-02 13:52:44 UTC
From: lt_wright_flg
Topic: 108 Message: 108

hi all,

I am in need of 2 sets of card guides (4 total) for the MSR2000. I need the guides that the exciter and receiver use, not the cards.

The more I learn about the MSR2000 I see Motorola would not put in items like card guides for the 2nd rcvr and some back plane connectors unless the radio was ordered with these items. One would think in the case of the back plane the dept making them would like to make just one and not have to worry about special build. But anything to save a buck I guess.

Anyone have some for sale or where I can obtain.

73, ron, n9ee/r

109. Jumpers

Yahoo group: MSR2000
Date: 2009-09-06 00:39:05 UTC
From: mzfb2001
Topic: 109 Message: 109

I have MSR 2000 setup as a repeater with stock cards. This setup includes a paging card which I would like to get rid of. When I remove it I lose repeat. I don't have a jumper chart to show what jumpers on the backplane to either add or delete. Does anyone have a fix for this?
Thanks
Mike

110. RE: [MSR2000] Jumpers

Yahoo group: MSR2000
Date: 2009-09-06 03:18:38 UTC
From: Randy
Topic: 109 Message: 110
Attachments: 2 described; binary payloads are missing from this source WARC

See http://www.repeater-builder.com/mitrek/mitrek-index.html for loads of MSR 2000 info, it covers Mitrek and MSR2000's.

Randy KC0RTX

--Some things just never change! --

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of mzfb2001
Sent: Saturday, September 05, 2009 7:39 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Jumpers

I have MSR 2000 setup as a repeater with stock cards. This setup includes a paging card which I would like to get rid of. When I remove it I lose repeat. I don't have a jumper chart to show what jumpers on the backplane to either add or delete. Does anyone have a fix for this?
Thanks
Mike

111. RE: [MSR2000] Jumpers

Yahoo group: MSR2000
Date: 2009-09-06 18:17:13 UTC
From: Tony Lelieveld
Topic: 109 Message: 111

Mike,
I may be able to help you but I need some more information.
1 Is the paging module a TRN4856-CFX and is it in slot 9?
2 What other stock cards are used?
3 When you remove the card, does the TX not key or do you only lose TX audio, any other info?

The exciter audio likely goes through the paging card. Check for jumper JU502 on the exciter board. It should be installed. If not, put a jumper in and try it again without the paging card. If it works your all set but let me know if the RPTR keys-up or not. Good luck.
73, Tony VE3DWI.

Subject: [MSR2000] Jumpers

I have MSR 2000 setup as a repeater with stock cards. This setup includes a paging card which I would like to get rid of. When I remove it I lose repeat. I don't have a jumper chart to show what jumpers on the backplane to either add or delete. Does anyone have a fix for this?
Thanks
Mike.

112. Re: [MSR2000] Jumpers

Yahoo group: MSR2000
Date: 2009-09-06 20:08:49 UTC
From: mike
Topic: 109 Message: 112

Hi Toney
Thanks for the reply. Yes 502 is installed. The paging card is a TRN5239APR. This is installed next to the station card card (left of the station card card). I have a line driver card, station control card, audio R1 card, PL card, and a Squelch gate card.
If I remove the paging card it will not transmit. If remove the Paging card and install a F1 PL card it works just fine. This does tell me that I need a jumper installed to cause the Oscillator (Icom) to come on. Just not sure which one though. I don't need the F1 Pl card in either.
Thanks for your help
Mike
----- Original Message -----
From: Tony Lelieveld
To: MSR2000@yahoogroups.com
Sent: Sunday, September 06, 2009 2:17 PM
Subject: RE: [MSR2000] Jumpers

Mike,
I may be able to help you but I need some more information.
1 Is the paging module a TRN4856-CFX and is it in slot 9?
2 What other stock cards are used?
3 When you remove the card, does the TX not key or do you only lose TX audio, any other info?

The exciter audio likely goes through the paging card. Check for jumper JU502 on the exciter board. It should be installed. If not, put a jumper in and try it again without the paging card. If it works your all set but let me know if the RPTR keys-up or not. Good luck.
73, Tony VE3DWI.

Subject: [MSR2000] Jumpers

I have MSR 2000 setup as a repeater with stock cards. This setup includes a paging card which I would like to get rid of. When I remove it I lose repeat. I don't have a jumper chart to show what jumpers on the backplane to either add or delete. Does anyone have a fix for this?
Thanks
Mike.

113. RE: [MSR2000] Jumpers

Yahoo group: MSR2000
Date: 2009-09-07 05:04:31 UTC
From: Tony Lelieveld
Topic: 109 Message: 113

Mike,

I am not familiar with the paging card you have. Try it with installing a jumper across pins 1 and 3 on the F1 tone card back-plane connector and see if it will work now without the paging and F1 tone card installed. You may wish to have a look at this write-up http://www.repeater-builder.com/msr2k/msr2k-conversion-k4hal.html as it has good information re modifying an MSR2000 repeater. You end up with only the Station control card, PL card, R1 audio squelch card and instead of the squelch-gate card an external controller is used.

Good luck es 73, Tony VE3DWI

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of mike
Sent: September 6, 2009 16:09
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] Jumpers

Hi Toney

Thanks for the reply. Yes 502 is installed. The paging card is a TRN5239APR. This is installed next to the station card card (left of the station card card). I have a line driver card, station control card, audio R1 card, PL card, and a Squelch gate card.

If I remove the paging card it will not transmit. If remove the Paging card and install a F1 PL card it works just fine. This does tell me that I need a jumper installed to cause the Oscillator (Icom) to come on. Just not sure which one though. I don't need the F1 Pl card in either.

Thanks for your help

Mike

----- Original Message -----

From: Tony Lelieveld <mailto:ve3dwi@...>

To: MSR2000@yahoogroups <mailto:MSR2000@yahoogroups.com> .com

Sent: Sunday, September 06, 2009 2:17 PM

Subject: RE: [MSR2000] Jumpers

Mike,
I may be able to help you but I need some more information.

1 Is the paging module a TRN4856-CFX and is it in slot 9?
2 What other stock cards are used?
3 When you remove the card, does the TX not key or do you only lose TX audio, any other info?

The exciter audio likely goes through the paging card. Check for jumper JU502 on the exciter board. It should be installed. If not, put a jumper in and try it again without the paging card. If it works your all set but let me know if the RPTR keys-up or not. Good luck.
73, Tony VE3DWI.

Subject: [MSR2000] Jumpers

I have MSR 2000 setup as a repeater with stock cards. This setup includes a paging card which I would like to get rid of. When I remove it I lose repeat. I don't have a jumper chart to show what jumpers on the backplane to either add or delete. Does anyone have a fix for this?
Thanks
Mike.

114. re: MSR2000 Jumpers

Yahoo group: MSR2000
Date: 2009-09-07 10:43:25 UTC
From: mzfb2001
Topic: 114 Message: 114

Tony
Thanks for the info I will try jumping those pins. Yes I have looked at the Repeater Builders docs on this subject, there is a lot of good info. However unless I missed it I didn't see anything in there about what I was trying to do. I want to run this as a stock repeater with just the basic cards and a CW ID'er.
Mike

115. Re: [MSR2000] Jumpers

Yahoo group: MSR2000
Date: 2009-09-07 13:44:54 UTC
From: william474@aol.com
Topic: 109 Message: 115

Mike,

On the repeater-builder page for the MSR2000 the last item in the MSR section is a list of all the jumpers for the MSR2000. It has proven to be most helpful for getting the jumpers correct.

For the backplane only these jumpers are needed: JU2; JU4;and JU5. The following cards will get you working: Squelch Gate; Station Control; PL and R1 Audio Squelch. All other cards can be removed. Configure each of the cards as needed for squelch (Carrier or PL) and Repeater operation. I use this setup in a "test bed" for setting up and trouble shooting. Oh, this applies to the TRN5083 BPR fully optioned backplane. The basic backplane is a little different.

Good Luck!

Bill - WA0CBW

In a message dated 9/7/2009 12:05:19 A.M. Central Daylight Time, ve3dwi@... writes:

Mike,
I am not familiar with the paging card you have. Try it with installing a jumper across pins 1 and 3 on the F1 tone card back-plane connector and see if it will work now without the paging and F1 tone card installed. You may wish to have a look at this write-up
http://www.repeater-builder.com/msr2k/msr2k-conversion-k4hal.html
(http://www.repeater-builder.com/msr2k/msr2k-conversion-k4hal.html) as it has good information re modifying an
MSR2000 repeater. You end up with only the Station control card, PL card, R1 audio squelch card and instead of the squelch-gate card an external controller is used.
Good luck es 73, Tony VE3DWI

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of mike
Sent: September 6, 2009 16:09
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] Jumpers

Hi Toney

Thanks for the reply. Yes 502 is installed. The paging card is a TRN5239APR. This is installed next to the station card card (left of the station card card). I have a line driver card, station control card, audio R1 card, PL

card, and a Squelch gate card.

If I remove the paging card it will not transmit. If remove the Paging card and install a F1 PL card it works just fine. This does tell me that I need a jumper installed to cause the Oscillator (Icom) to come on. Just not sure which one though. I don't need the F1 Pl card in either.

Thanks for your help

Mike

----- Original Message -----

From: _Tony Lelieveld_ (mailto:ve3dwi@...)

To: _MSR2000@yahoogroupsMSR2_ (mailto:MSR2000@yahoogroups.com)

Sent: Sunday, September 06, 2009 2:17 PM

Subject: RE: [MSR2000] Jumpers

Mike,
I may be able to help you but I need some more information.
1 Is the paging module a TRN4856-CFX and is it in slot 9?
2 What other stock cards are used?
3 When you remove the card, does the TX not key or do you only lose TX audio, any other info?
The exciter audio likely goes through the paging card. Check for jumper JU502 on the exciter board. It should be installed. If not, put a jumper in and try it again without the paging card. If it works your all set but let me know if the RPTR keys-up or not. Good luck.
73, Tony VE3DWI.
Subject: [MSR2000] Jumpers

I have MSR 2000 setup as a repeater with stock cards. This setup includes a paging card which I would like to get rid of. When I remove it I lose repeat. I don't have a jumper chart to show what jumpers on the backplane to either add or delete. Does anyone have a fix for this?
Thanks
Mike.

116. Re: [MSR2000] Jumpers

Yahoo group: MSR2000
Date: 2009-09-08 10:02:37 UTC
From: mike
Topic: 109 Message: 116

Thanks to all that replied. I have fully funtional backplane and will double check the jumpers. I tried jumping pin 1 and 3 of F! card on the backplane and removing F1 and that didn't work. I will check jumpers 2, 4 and 5 and see that will work. Yes I only want the basic cards as Bill pointed out. Also I was going to add a simple CW ID'er to the setup I knew the MSR2000 didn't have a stock Id'er.
Mike
----- Original Message -----
From: william474@...
To: MSR2000@yahoogroups.com
Sent: Monday, September 07, 2009 9:44 AM
Subject: Re: [MSR2000] Jumpers

Mike,

On the repeater-builder page for the MSR2000 the last item in the MSR section is a list of all the jumpers for the MSR2000. It has proven to be most helpful for getting the jumpers correct.

For the backplane only these jumpers are needed: JU2; JU4;and JU5. The following cards will get you working: Squelch Gate; Station Control; PL and R1 Audio Squelch. All other cards can be removed. Configure each of the cards as needed for squelch (Carrier or PL) and Repeater operation. I use this setup in a "test bed" for setting up and trouble shooting. Oh, this applies to the TRN5083 BPR fully optioned backplane. The basic backplane is a little different.

Good Luck!

Bill - WA0CBW

In a message dated 9/7/2009 12:05:19 A.M. Central Daylight Time, ve3dwi@... writes:

Mike,

I am not familiar with the paging card you have. Try it with installing a jumper across pins 1 and 3 on the F1 tone card back-plane connector and see if it will work now without the paging and F1 tone card installed. You may wish to have a look at this write-up http://www.repeater-builder.com/msr2k/msr2k-conversion-k4hal.html as it has good information re modifying an MSR2000 repeater. You end up with only the Station control card, PL card, R1 audio squelch card and instead of the squelch-gate card an external controller is used.

Good luck es 73, Tony VE3DWI

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of mike
Sent: September 6, 2009 16:09
To: MSR2000@yahoogroups.com

Subject: Re: [MSR2000] Jumpers

Hi Toney

Thanks for the reply. Yes 502 is installed. The paging card is a TRN5239APR. This is installed next to the station card card (left of the station card card). I have a line driver card, station control card, audio R1 card, PL card, and a Squelch gate card.

If I remove the paging card it will not transmit. If remove the Paging card and install a F1 PL card it works just fine. This does tell me that I need a jumper installed to cause the Oscillator (Icom) to come on. Just not sure which one though. I don't need the F1 Pl card in either.

Thanks for your help

Mike

----- Original Message -----

From: Tony Lelieveld

To: MSR2000@yahoogroups.com

Sent: Sunday, September 06, 2009 2:17 PM

Subject: RE: [MSR2000] Jumpers

Mike,
I may be able to help you but I need some more information.
1 Is the paging module a TRN4856-CFX and is it in slot 9?
2 What other stock cards are used?
3 When you remove the card, does the TX not key or do you only lose TX audio, any other info?

The exciter audio likely goes through the paging card. Check for jumper JU502 on the exciter board. It should be installed. If not, put a jumper in and try it again without the paging card. If it works your all set but let me know if the RPTR keys-up or not. Good luck.
73, Tony VE3DWI.

Subject: [MSR2000] Jumpers

I have MSR 2000 setup as a repeater with stock cards. This setup includes a paging card which I would like to get rid of. When I remove it I lose repeat. I don't have a jumper chart to show what jumpers on the backplane to either add or delete. Does anyone have a fix for this?
Thanks
Mike.

---

117. moto mitrex test set

Yahoo group: MSR2000
Date: 2009-09-22 14:50:30 UTC
From: keuldej
Topic: 117 Message: 117

Hi all
I want to use my Motorola R-1033A test Set with a Motorola MSR2000 vhf repeater.
The R-1033A manual refers to an RTL-4130A adaptor to mate the RTK-4043A metering cable with the repeater.
Does any one know the internal wiring of the adapter or how to modify the RTK-4043A metering cable?
Regards
Johan Keulder
ZS6CAQ

118. Re: [MSR2000] moto mitrex test set

Yahoo group: MSR2000
Date: 2009-09-26 00:13:49 UTC
From: Tony Lelieveld
Topic: 117 Message: 118

Hi Johan,
I don't know if you did get an answer to your question yet. I may be able to help you but can't do it until I get back home and that's going to be about two weeks from now.? So.. hang in there and I will get back to you.
73, Tony, VE3DWI

On Sep 22, 2009, keuldej wrote:

?

Hi all
I want to use my Motorola R-1033A test Set with a Motorola MSR2000 vhf repeater.
The R-1033A manual refers to an RTL-4130A adaptor to mate the RTK-4043A metering cable with the repeater.
Does any one know the internal wiring of the adapter or how to modify the RTK-4043A metering cable?
Regards
Johan Keulder
ZS6CAQ

119. VHF Transmitter

Yahoo group: MSR2000
Date: 2009-09-26 01:35:42 UTC
From: mzfb2001
Topic: 119 Message: 119

I pick up a VHF MSR2000 transmitter that has a different Plug on it. This has a female rather than a male plug that fits the MSR backplane. Is there an adapter for the VHF transmitter? The UHF transmitter has the Male pins on it which plugs into a board before it mates to the backplane.
Thanks for any help in advance
Mike

120. RE: [MSR2000] VHF Transmitter

Yahoo group: MSR2000
Date: 2009-09-26 01:55:39 UTC
From: Sims, Ted
Topic: 119 Message: 120

The transmitter boards with male plug were made for repeater application. It plugs into a daughter board on the backplane with extra filtering. The boards with the female connector were built for remote base, and other non-repeater applications. There VHF and UHF transmitters can be found in both styles.

You can convert one type to the other if, of course, you have the parts. Sometimes, I will swap them between boards.

If you look at the boards, you can see they can be built either way. The schematic has details on the differences.

_____

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of mzfb2001
Sent: Friday, September 25, 2009 9:36 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] VHF Transmitter

I pick up a VHF MSR2000 transmitter that has a different Plug on it. This has a female rather than a male plug that fits the MSR backplane. Is there an adapter for the VHF transmitter? The UHF transmitter has the Male pins on it which plugs into a board before it mates to the backplane.
Thanks for any help in advance
Mike

_____ NOD32 4458 (20090925) Information _____

This message was checked by NOD32 antivirus system.
http://www.eset.com

121. Re: [MSR2000] moto mitrex test set

Yahoo group: MSR2000
Date: 2009-09-26 04:21:20 UTC
From: Johan Keulder
Topic: 117 Message: 121

Hi Tony
Thanks, I will wait for you and apreciate your help. From the manual revision it appears that the receiver "audio hi" is grounded through the metering cable. and the only remedy sugested is the use of the adapter.
Regards
Johan
ZS6CAQ
----- Original Message -----
From: Tony Lelieveld
To: MSR2000@yahoogroups.com
Sent: Saturday, September 26, 2009 2:13 AM
Subject: Re: [MSR2000] moto mitrex test set

Hi Johan,
I don't know if you did get an answer to your question yet. I may be able to help you but can't do it until I get back home and that's going to be about two weeks from now. So.. hang in there and I will get back to you.
73, Tony, VE3DWI

On Sep 22, 2009, keuldej <keuldej@...> wrote:

Hi all
I want to use my Motorola R-1033A test Set with a Motorola MSR2000 vhf repeater.
The R-1033A manual refers to an RTL-4130A adaptor to mate the RTK-4043A metering cable with the repeater.
Does any one know the internal wiring of the adapter or how to modify the RTK-4043A metering cable?
Regards
Johan Keulder
ZS6CAQ

122. Re: Re: [MSR2000] moto mitrex test set

Yahoo group: MSR2000
Date: 2009-09-27 04:03:47 UTC
From: Tony Lelieveld
Topic: 117 Message: 122

Johan,

I am just going by memory here but I believe that the adapter is a male to female plug with the pin that shorts the audio hi to ground cut off.? I hope this helps (so far).

73, Tony, VE3DWI

Sep 26, 2009 12:22:02 AM, MSR2000@yahoogroups.com wrote:

?

☐
Hi Tony

Thanks, I will wait for you and apreciate your help. From the manual revision it appears that the receiver "audio hi" is grounded through the metering cable. and the only remedy sugested is the use of the adapter.

Regards

Johan

ZS6CAQ

----- Original Message -----

From: Tony Lelieveld

To: MSR2000@yahoogroups.com

Sent: Saturday, September 26, 2009 2:13 AM

Subject: Re: [MSR2000] moto mitrex test set

?

Hi Johan,
I don't know if you did get an answer to your question yet.? I may be able to help you but can't do it until I get back home and that's going to be about two weeks from now.? So.. hang in there and I will get back to you.
73, Tony, VE3DWI

On Sep 22, 2009, keuldej <;keuldej@...> wrote:

?

Hi all
I want to use my Motorola R-1033A test Set with a Motorola MSR2000 vhf repeater.
The R-1033A manual refers to an RTL-4130A adaptor to mate the RTK-4043A metering cable with

the repeater.
Does any one know the internal wiring of the adapter or how to modify the RTK-4043A metering cable?
Regards
Johan Keulder
ZS6CAQ

123. Wanted: MSR2000 UHF receiver

Yahoo group: MSR2000
Date: 2009-10-15 20:29:20 UTC
From: kk2ed
Topic: 123 Message: 123

Need one MSR2000 UHF 440-470 range receiver board.

Eric
KE2D

124. PA problem

Yahoo group: MSR2000
Date: 2009-10-25 03:13:21 UTC
From: Capt Wright
Topic: 124 Message: 124

Hi all,

I am using a MSR2000 for my repeater now. Was Micor but like the MSR2k so much thought would replace the Micor. The Micor was built in 1974 and I had in service for 13 years...great rig.

I am having a problem with desense. The symption is there is noise on my rcv freq from the tx. The kind of noise one sees when using a bad coax like 9913. Little spikes roaming thru the rcv coax at the duplexer rcvr port.

I am using a 150-170 MSR PA and the caps are tuned to max.

I have thought of paralleling the caps with other fixed caps making the values combined to be in the 140 range.

I looked at the receive port with spec anal to find the noise. It is there only when TX up. Did not have problem with Micor so not a problem with outside source. Did not look at with dummy load as antenna so do not know if antenna problem.

Any ideas???

73,ron, n9ee/r

125. RE: [MSR2000] PA problem

Yahoo group: MSR2000
Date: 2009-10-25 17:34:23 UTC
From: K4GKJ
Topic: 124 Message: 125

I've had problems with switched mode power supplies being too close or on the same circuit.

I never powered an MSR2000 with a SM PS, but definitely had issues when one was near.

Doug

K4gkj

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Capt Wright
Sent: Saturday, October 24, 2009 11:13 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] PA problem

Hi all,

I am using a MSR2000 for my repeater now. Was Micor but like the MSR2k so much thought would replace the Micor. The Micor was built in 1974 and I had in service for 13 years...great rig.

I am having a problem with desense. The symption is there is noise on my rcv freq from the tx. The kind of noise one sees when using a bad coax like 9913. Little spikes roaming thru the rcv coax at the duplexer rcvr port.

I am using a 150-170 MSR PA and the caps are tuned to max.

I have thought of paralleling the caps with other fixed caps making the values combined to be in the 140 range.

I looked at the receive port with spec anal to find the noise. It is there only when TX up. Did not have problem with Micor so not a problem with outside source. Did not look at with dummy load as antenna so do not know if antenna problem.

Any ideas???

73,ron, n9ee/r

126. MSR-2000 VHF PA FINAL TRANSISTORS

Yahoo group: MSR2000
Date: 2009-11-20 22:23:11 UTC
From: iandetom
Topic: 126 Message: 126

Anyone have a source? I am looking for 4 of them. Got an old Mitrek mobile laying around, those finals will work. Got a MSR 2000 for our club's repeater and lost the finals in it. Luckily I had a spare MSR 2000 built up for a hot back up but now need to fix the main. Thanks in advance.
Tom N8CT

iandetom@...

127. Re: [MSR2000] MSR-2000 VHF PA FINAL TRANSISTORS

Yahoo group: MSR2000
Date: 2009-11-20 23:18:17 UTC
From: mccrpt@verizon.net
Topic: 126 Message: 127

Tom,

It is most often easier to just buy another PA on e-bay. I have gotten them for $50, but $150 is good too.

73, ron, n9ee/r

Nov 20, 2009 05:23:30 PM, MSR2000@yahoogroups.com wrote:

==========

Anyone have a source? I am looking for 4 of them. Got an old Mitrek mobile laying around, those finals will work. Got a MSR 2000 for our club's repeater and lost the finals in it. Luckily I had a spare MSR 2000 built up for a hot back up but now need to fix the main. Thanks in advance.
Tom N8CT

iandetom@...

128. Re: [MSR2000] MSR-2000 VHF PA FINAL TRANSISTORS

Yahoo group: MSR2000
Date: 2009-11-21 05:30:13 UTC
From: Tom
Topic: 126 Message: 128

Thanks for reply...I will keep an eye on ebay.
Tom

--- On Fri, 11/20/09, mccrpt@... <mccrpt@...> wrote:

From: mccrpt@... <mccrpt@...>
Subject: Re: [MSR2000] MSR-2000 VHF PA FINAL TRANSISTORS
To: MSR2000@yahoogroups.com
Date: Friday, November 20, 2009, 6:18 PM

Tom,

It is most often easier to just buy another PA on e-bay. I have gotten them for $50, but $150 is good too.

73, ron, n9ee/r

Nov 20, 2009 05:23:30 PM, MSR2000@yahoogroups .com wrote:

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Anyone have a source? I am looking for 4 of them. Got an old Mitrek mobile laying around, those finals will work. Got a MSR 2000 for our club's repeater and lost the finals in it. Luckily I had a spare MSR 2000 built up for a hot back up but now need to fix the main. Thanks in advance.

Tom N8CT

iandetom@yahoo. com

129. Squelch Gate

Yahoo group: MSR2000
Date: 2009-11-28 02:23:30 UTC
From: mzfb2001
Topic: 129 Message: 129

I have a couple MSR2000 Squelch Gate cards TRN5331b. I can't seem to get the switches set right. I have one that is also MSR sqelch gate card however it is simular to the Micor sqlech gate in that it doesn't have the dip switches and it works okay. Anybody use one of these cards with dip switches? What settings did you use.
Thanks
Mike

130. West Crystal in Kelowna, BC will stop making crystals as of Jan 1/2010

Yahoo group: MSR2000
Date: 2009-12-12 13:35:58 UTC
From: Paul
Topic: 130 Message: 130

Was just ordering a set for an aprs project, when they advised me of their discontinuance of crystal manufacturing at the end of the year.

Just as an FYI
73
Paul, VA3PC

131. Re: West Crystal in Kelowna, BC will stop making crystals as of Jan 1/2010

Yahoo group: MSR2000
Date: 2009-12-12 23:17:56 UTC
From: ve3ext@primus.ca
Topic: 130 Message: 131

Paul what !!!!! Just getting ready to order a pair for the new science city repeater here in Windsor (MSR 2000). Now where? International?

Jerry VE3 EXT

132. RE: [MSR2000] Re: West Crystal in Kelowna, BC will stop making crystals as of Jan 1/2010

Yahoo group: MSR2000
Date: 2009-12-13 00:57:11 UTC
From: Sims, Ted
Topic: 130 Message: 132

Too bad about West. I've been using Bomar for our MSR2000 projects recently with good results.

_____

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of ve3ext@...
Sent: Saturday, December 12, 2009 6:18 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: West Crystal in Kelowna, BC will stop making crystals as of Jan 1/2010

Paul what !!!!! Just getting ready to order a pair for the new science city repeater here in Windsor (MSR 2000). Now where? International?

Jerry VE3 EXT

_____ NOD32 4682 (20091212) Information _____

This message was checked by NOD32 antivirus system.
http://www.eset.com

133. MSR2000 Power issue

Yahoo group: MSR2000
Date: 2009-12-23 09:27:54 UTC
From: Jesus
Topic: 133 Message: 133

Hey all,

I have a MSR, VHF kind, that after about a minute of powering on the Power Fault light comes on. The only way to reset it is to power off and then back on, it then repeats the Power Fault light.

Is there something I'm missing? I haven't fired this rig up since I got it 5 years ago...It was fine then for days at a time.

On a side-note, I need to learn how to program it.

Regards,

-Frank C.

134. RE: [MSR2000] MSR2000 Power issue

Yahoo group: MSR2000
Date: 2009-12-23 14:15:22 UTC
From: Tony Lelieveld
Topic: 133 Message: 134

Frank,

I you sure you are talking about an MSR2000 as it does not have a power fault light and it is not programmable. One suggestion, try it on a dummy load and see if the same thing happens.

73 es gd luck Tony VE3DWI / AC8FA

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Jesus
Sent: December 23, 2009 04:28
To: MSR2000@yahoogroups.com
Subject: [MSR2000] MSR2000 Power issue

Hey all,

I have a MSR, VHF kind, that after about a minute of powering on the Power Fault light comes on. The only way to reset it is to power off and then back on, it then repeats the Power Fault light.

Is there something I'm missing? I haven't fired this rig up since I got it 5 years ago...It was fine then for days at a time.

On a side-note, I need to learn how to program it.

Regards,

-Frank C.

135. Re: [MSR2000] MSR2000 Power issue

Yahoo group: MSR2000
Date: 2009-12-23 14:20:11 UTC
From: william474@aol.com
Topic: 133 Message: 135

An MSR2000 uses crystal elements. There is no programming. It doesn't have a Power Fault light. Are you refereing to an MTR2000?

BB

-----Original Message-----
From: Jesus <fchrist2@...>
To: MSR2000@yahoogroups.com
Sent: Wed, Dec 23, 2009 3:27 am
Subject: [MSR2000] MSR2000 Power issue

Hey all,
I have a MSR, VHF kind, that after about a minute of powering on the Power Fault ight comes on. The only way to reset it is to power off and then back on, it hen repeats the Power Fault light.
Is there something I'm missing? I haven't fired this rig up since I got it 5 ears ago...It was fine then for days at a time.
On a side-note, I need to learn how to program it.
Regards,
-Frank C.

Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

136. Repeater Control Module

Yahoo group: MSR2000
Date: 2010-03-02 21:35:59 UTC
From: ve3uil
Topic: 136 Message: 136

Our club has an MSR 2000 plus spare parts that we are trying to convert for Amateur Radio use.

We have two modules for which we can find no documentation or any indication what they do.

These are:

Repeater Control Module

Station Control Module

Any help would be appreciated.

Tnx

137. Re: Repeater Control Module

Yahoo group: MSR2000
Date: 2010-03-02 22:11:34 UTC
From: ve3ext@primus.ca
Topic: 136 Message: 137

give us the board numbers, TRN-------- etc.
Jerry

138. Re: Repeater Control Module

Yahoo group: MSR2000
Date: 2010-03-02 22:53:54 UTC
From: Capt Wright
Topic: 136 Message: 138

Here on the Repeater-Builders is the Station Control card.

http://www.repeater-builder.com/msr2000/pdfs/msr2000-trn5321a-station-control.pdf

I use this card only for getting higher level rcv audio for the controller. It allows for pot adjustment.

My MSR2000 manuals do not have the Repeater Control Module. Was probably not part of the package the manuals came with.

I only use the R1 Audio card (has rcv de-emphasis circuit, amp for local speaker and the squelch circuit), the PL card (also has a PL tone filter for removing a users tone) requiring the reeds. With these and a controller one can make the MSR2000 into an excellent repeater.

Some like using the SQ Gate card for COS. It is good card with pot adjustment for the squelch trip point.

Some also prefer a different PL board like the Comm Spec TS64DS which has dip switch to set tone freq and also does both encode and decode.

At the Repeater-Builders site you can get info on the repeater conversion. I also have one that I did and is in digital form if you would like to have it. It is FILES of this board.

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "ve3uil" <ve3uil@...> wrote:
>
> Our club has an MSR 2000 plus spare parts that we are trying to convert for Amateur Radio use.
>
> We have two modules for which we can find no documentation or any indication what they do.
>
> These are:
>
> Repeater Control Module
>
> Station Control Module
>
> Any help would be appreciated.
>
> Tnx
>

139. Re: [MSR2000] Repeater Control Module

Yahoo group: MSR2000
Date: 2010-03-03 04:58:56 UTC
From: larryjspammenot@teleport.com
Topic: 136 Message: 139

You need the Motorola "MSR-2000 Base and Repeater Stations Control and Audio" manual, part # 68P81061E40-O - those modules are covered in that book.

?

Larry

-----Original Message-----
From: ve3uil
Sent: Mar 2, 2010 1:35 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Repeater Control Module

?;

Our club has an MSR 2000 plus spare parts that we are trying to convert for Amateur Radio use.

We have two modules for which we can find no documentation or any indication what they do.

These are:

Repeater Control Module

Station Control Module

Any help would be appreciated.

Tnx

140. RE: [MSR2000] Repeater Control Module

Yahoo group: MSR2000
Date: 2010-03-03 20:04:55 UTC
From: Tony Lelieveld
Topic: 136 Message: 140

Hi,

You'll likely find all the info you need right here: http://www.repeater-builder.com/msr2000/msr2000-index.html Follow the link under articles from Henry Wingate K4HAL Conversion <http://www.repeater-builder.com/msr2000/msr2000-conversion-k4hal.html> of an MSR-2000 station to an amateur repeater

By "Repeater Control Module" do you perhaps mean "Squelch Gate Module"?

73, Tony VE3DWI

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of ve3uil
Sent: March 2, 2010 16:36
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Repeater Control Module

Our club has an MSR 2000 plus spare parts that we are trying to convert for Amateur Radio use.

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These are:

Repeater Control Module

Station Control Module

Any help would be appreciated.

Tnx

141. RE: [MSR2000] Repeater Control Module

Yahoo group: MSR2000
Date: 2010-03-03 22:49:42 UTC
From: larryjspammenot@teleport.com
Topic: 136 Message: 141

No - they are two separate modules that both plug into dedicated slots of the MSR-2000 ?Repeater card cage.

?

We used to use a lot of UHF MSR-2000 UHF Repeaters for the local City Police Dept. For some reason, when we retired them about 20 years ago and moved to 800-MHz, we found?many individually boxed, new and?unused Squelch Gate Modules and Repeater Control Modules in our radio shop storeroom?that had never been installed in the Repeaters. For some reason, they just weren't needed. I think it's related to having?;card cage boards like the Line Driver Modules that were "Spectra-Tac" versions, and were part of a big voted system (some channels used the GE Voters, some used the Motorola Spectra-Tac voting system.).

?

I still have some of the retired UHF MSR-2000 repeaters that I've been selling locally, and that's how these were configured.

?

?

-----Original Message-----
From: Tony Lelieveld
Sent: Mar 3, 2010 12:04 PM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] Repeater Control Module

?

Hi,

You’ll likely find all the info you need right here:
http://www.repeater-builder.com/msr2000/msr2000-index.html ?Follow the link under articles from Henry Wingate K4HAL Conversion of an MSR-2000 station to an amateur repeater (http://www.repeater-builder.com/msr2000/msr2000-conversion-k4hal.html)?

By “Repeater Control Module” do you perhaps mean “Squelch Gate Module”?

73, Tony VE3DWI

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of ve3uil
Sent: March 2, 2010 16:36
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Repeater Control Module

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We have two modules for which we can find no documentation or any indication what they do.

These are:

Repeater Control Module

Station Control Module

Any help would be appreciated.

Tnx

142. 100 watt PA VHF Amplifier

Yahoo group: MSR2000
Date: 2010-04-07 23:54:12 UTC
From: jerry
Topic: 142 Message: 142

it's working fine at its rated output.

However, we wish to run around 50-60 watts, what is the proper procedure to run at less than 100 watts ?

I know we have to be concerned abt. instability, spurs etc., but hams are long winded !!

Tnx for the assistance

Jerry VE3 EXT

143. Re: [MSR2000] 100 watt PA VHF Amplifier

Yahoo group: MSR2000
Date: 2010-04-08 01:01:18 UTC
From: Ron Wright
Topic: 142 Message: 143

Jerry,

I run a 100W continuous duty PA on my MSR2000 VHF repeater at about 60W with no problem. It is turned down all the way it will go with the power adjustment on the PA control board. Can run less, but Mot has 2 pots in series for the power control and one pot essentially limits the range of the main power setting pot preventing one turning the power down below a set level. This pot is under the cover in the PA and the cover must be removed to adjust. So if wanting to reduce lower must open the cover and adjust the pot.

I don't think you will have a problem turning the power down to at least 50% rating. However, if you do I would recommend re-tuning the PA.

73, ron, n9ee/r
MCC

Ron Wright, N9EE
BSEE
Micro Computer Concepts
352-683-4476

From: jerry <ve3ext@...>
To: MSR2000@yahoogroups.com
Sent: Wed, April 7, 2010 7:54:12 PM
Subject: [MSR2000] 100 watt PA VHF Amplifier

it's working fine at its rated output.

However, we wish to run around 50-60 watts, what is the proper procedure to run at less than 100 watts ?

I know we have to be concerned abt. instability, spurs etc., but hams are long winded !!

Tnx for the assistance

Jerry VE3 EXT

144. Removing boards

Yahoo group: MSR2000
Date: 2010-04-16 01:39:25 UTC
From: H
Topic: 144 Message: 144

Can someone tell me the trick to removing the cards from the MSR2000??
Thanks Harvey

145. Re: [MSR2000] Removing boards

Yahoo group: MSR2000
Date: 2010-04-16 01:51:59 UTC
From: Jim Lange
Topic: 144 Message: 145

The cards in a "new to you" box always seem to be stuck. What I do is get a large pair of pliers and grab the handle on the card, put a foot on either side of the cabinet and rock gently while pulling. They usually come right out without damage. It would be wise to have someone steady the cabinet so it doesn't come crashing down on you when the card loses its grip.

Jim

----- Original Message -----
From: H
To: MSR2000@yahoogroups.com
Sent: Thursday, April 15, 2010 21:39
Subject: [MSR2000] Removing boards

Can someone tell me the trick to removing the cards from the MSR2000??
Thanks Harvey

146. RE: [MSR2000] Removing boards

Yahoo group: MSR2000
Date: 2010-04-16 02:07:11 UTC
From: K4GKJ
Topic: 144 Message: 146

There is a removal tool designed for this purpose. It basically is a tool that pulls on the 'handle' of the card, using the MSR cage as leverage...

This page indicates having one for sale for $25. I think I have one I'll sell for much less if I can find it.
http://www.panikelectronics.com/panik.txt

I'll be glad to take a photo of one and send it so that you can be on the lookout for one at your next 'ham fest'...just let me know if you wish me too.

But, I don't use the tool that much myself, choosing to just wiggle the card out (up and down - not side to side)..just use caution, since once it is loose, it will come flying out!

Doug

K4gkj

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of H
Sent: Thursday, April 15, 2010 9:39 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Removing boards

Can someone tell me the trick to removing the cards from the MSR2000??
Thanks Harvey

147. Re: [MSR2000] Removing boards

Yahoo group: MSR2000
Date: 2010-04-16 02:54:45 UTC
From: william474@aol.com
Topic: 144 Message: 147

The tool is a kind of a hook that goes over the pull tab on the card and a sturdy finger pull. One could fabricate one from a piece of plexiglass or equivalent.

Bill - WA0CBW

In a message dated 4/15/2010 8:39:37 P.M. Central Daylight Time, hsteinhoff@... writes:

Can someone tell me the trick to removing the cards from the MSR2000??
Thanks Harvey

Yahoo! Groups Links

148. Re: [MSR2000] Removing boards

Yahoo group: MSR2000
Date: 2010-04-16 04:21:01 UTC
From: Jim Lange
Topic: 144 Message: 148

Well I'll be! I have a few of those and no one that saw them knew what they were. I'll have to dig one out and try it.
Thanks Bill.
Jim WA2RJP

----- Original Message -----
From: william474@...
To: MSR2000@yahoogroups.com
Sent: Thursday, April 15, 2010 22:54
Subject: Re: [MSR2000] Removing boards

The tool is a kind of a hook that goes over the pull tab on the card and a sturdy finger pull. One could fabricate one from a piece of plexiglass or equivalent.

Bill - WA0CBW

In a message dated 4/15/2010 8:39:37 P.M. Central Daylight Time, hsteinhoff@... writes:
Can someone tell me the trick to removing the cards from the MSR2000??
Thanks Harvey

Yahoo! Groups Links

149. Re: [MSR2000] Removing boards

Yahoo group: MSR2000
Date: 2010-04-16 09:26:27 UTC
From: Ron Wright
Topic: 144 Message: 149

Harvey,

The trick is a good grip on the card and mussel. Motorola designed the cage to hold the cards and I mean really hold the cards.

When pulling and they don't come out one gets the idea they will pull the card and the back plane or its connector with the card because things are so tight.

The small leaver on the front of the card is often hard to get enough grip on to pull so I use a pair of pliers to get hold of it and pull hard. Just keep in mind the card will come loose suddenly so be ready to catch ones self, hi.

As others stated there is a tool from Motorola for this. I have one, but never used it.

Also when inserting a card it often takes a real push to seat properly. Usually one can tell of the card is seated with reference to the other cards. If you insert a card and it is easy to pull out then it was probably not seated all the way. Good hardware is often a b***h to work on, hi.

73, ron, n9ee/r

Ron Wright, N9EE
BSEE
Micro Computer Concepts
352-683-4476

From: H <hsteinhoff@...>
To: MSR2000@yahoogroups.com
Sent: Thu, April 15, 2010 9:39:25 PM
Subject: [MSR2000] Removing boards

Can someone tell me the trick to removing the cards from the MSR2000??
Thanks Harvey

150. RE: [MSR2000] Removing boards

Yahoo group: MSR2000
Date: 2010-04-16 10:46:18 UTC
From: Sims, Ted
Topic: 144 Message: 150

The right tool shows up on Ebay from time to time. It can save a lot of frustration and skin'd knuckles. The alternative is get as good a grip as you can and pull hard.

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Ron Wright
Sent: Friday, April 16, 2010 5:26 AM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] Removing boards

Harvey,

The trick is a good grip on the card and mussel. Motorola designed the cage to hold the cards and I mean really hold the cards.

When pulling and they don't come out one gets the idea they will pull the card and the back plane or its connector with the card because things are so tight.

The small leaver on the front of the card is often hard to get enough grip on to pull so I use a pair of pliers to get hold of it and pull hard. Just keep in mind the card will come loose suddenly so be ready to catch ones self, hi.

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73, ron, n9ee/r

Ron Wright, N9EE
BSEE
Micro Computer Concepts
352-683-4476

From: H <hsteinhoff@...>
To: MSR2000@yahoogroups.com
Sent: Thu, April 15, 2010 9:39:25 PM
Subject: [MSR2000] Removing boards

Can someone tell me the trick to removing the cards from the MSR2000??
Thanks Harvey

_____ NOD32 5033 (20100416) Information _____

This message was checked by NOD32 antivirus system.
http://www.eset.com

151. Re: Removing boards

Yahoo group: MSR2000
Date: 2010-04-16 12:05:06 UTC
From: H
Topic: 144 Message: 151

Thanks to everyone for you help. I might be looking for more as I am just about to start my project.

--- In MSR2000@yahoogroups.com, "H" <hsteinhoff@...> wrote:
>
> Can someone tell me the trick to removing the cards from the MSR2000??
> Thanks Harvey
>

152. manual

Yahoo group: MSR2000
Date: 2010-04-17 17:20:02 UTC
From: H
Topic: 152 Message: 152

Anyone have to manual for the uhf unit with the 35w amp. just wondering what all has to be tuned when converting to ham band. also I see there is many type of mods for this conversion, which is the best one???

153. narrow banding in Ham Radio

Yahoo group: MSR2000
Date: 2010-08-01 12:04:44 UTC
From: Maj Wright
Topic: 153 Message: 153

hi all,

The Florida Repeater council has put forth a proposal to force 2m in Florida to go narrow band based on Part 90.

You can read their proposal at: http://www.florida-repeaters.org/

It appears the FRC is not really in touch with Ham Radio gear and radio technology. The main proposal is based mainly on rigs can be narrow banded by simply turning down the deviation to 2.5 kHz and rigs now have the newer 12.5 and 6.25 kHz spacing.

I have sent my comments to the FRC opposing the change due to they do not seem to be in touch with Ham Radio technology and radios and that Hams keep their gear for many years unlike many commercial services. It would also require million spent by Hams.

I do like the newer technologies, even D-Star, but the existing 2m gear and the way Ham Radio is structured is very different from commercial parts of the bands.

73, ron, n9ee/r
Spring Hill, Florida

154. RE: [MSR2000] narrow banding in Ham Radio

Yahoo group: MSR2000
Date: 2010-08-01 21:55:00 UTC
From: Tony Lelieveld
Topic: 153 Message: 154

You're right Ron.

They seem to conveniently side step the fact that most hams have 2 mtr radios that require new "IF" filters for this. A lot of hams who have perfectly good radios won't be happy about that. I also frown upon THEIR use of the word "FORCE".

73, Tony VE3DWI / K8DWI.

-----Original Message-----
From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Maj Wright
Sent: August 1, 2010 08:05
To: MSR2000@yahoogroups.com
Subject: [MSR2000] narrow banding in Ham Radio

hi all,

The Florida Repeater council has put forth a proposal to force 2m in Florida to go narrow band based on Part 90.

You can read their proposal at: http://www.florida-repeaters.org/

It appears the FRC is not really in touch with Ham Radio gear and radio technology. The main proposal is based mainly on rigs can be narrow banded by simply turning down the deviation to 2.5 kHz and rigs now have the newer 12.5 and 6.25 kHz spacing.

I have sent my comments to the FRC opposing the change due to they do not seem to be in touch with Ham Radio technology and radios and that Hams keep their gear for many years unlike many commercial services. It would also require million spent by Hams.

I do like the newer technologies, even D-Star, but the existing 2m gear and the way Ham Radio is structured is very different from commercial parts of the bands.

73, ron, n9ee/r
Spring Hill, Florida

Yahoo! Groups Links

155. RE: [MSR2000] narrow banding in Ham Radio

Yahoo group: MSR2000
Date: 2010-08-02 02:38:31 UTC
From: Mike Christie
Topic: 153 Message: 155

Ron
I agree! people seem to forget what Hamradio is all about. Its the thrill of tweaking and peaking and watching the watt meter for the power to come up as the coils are adjusted. There are still people out there that like to build and convert equipment to use on our frequencies. That's what Hamradio is all about. I see this as a ploy for the equipment manufactures to increase their sales of new equipment. Boy the more I think about this the madder I get, just plain stupid. I work in Public Safety and yes there is a need for narrow banding there but not in Hamradio. The way things are moving there won't be anything left of Hamradio, surface mount technology and radio's that aren't radio's but are computers. When big balloon goes up the only systems that are going to work are simple single channel radio systems. This was proven time and time again in last few years. I hope by the time we really need to go narrowband, I'm up in Radio Haven! Those that want digital go to D-star, there's a place for everyone on our frequencies, but don't take away the one thing that made Hamradio what it is day "experimentation". If the Florida folks want more frequencies go after the repeaters that exists on paper but are not physically on the air.
Mike
W1ZFB

156. Re: [MSR2000] narrow banding in Ham Radio

Yahoo group: MSR2000
Date: 2010-08-02 14:24:44 UTC
From: Ron Wright
Topic: 153 Message: 156

One other issue in the proposal are the freq pairs.

For 145 MHz the FRC is making 10 kHz spacing, a freq between each of our now 20 kHz spacing. Not a problem.

However, for the 146/147 the pairs are 7.5 kHz, half way in between our now 15 kHz spacing. All my radios will not do 7.5 kHz except possibly by going to menu in radio and setting for 12.5 ch spacing, tuning to one of these and then reset radio to 5 kHz. However, when I have tried this the radio will still not move only 5 kHz from the set 12.5 kHz freq. It has to be function of the PLL in the rig synth allowing for only predetermined freq.

Even my FT817 DC to light all mod that will go to these freq in SSB/CW, but as soon as you set to FM mode it goes to nearest 5 kHz.

I know the reason for the FRC choosing these freq so existing repeaters could stay one their now assigned freq.

Well this is another bug that would have to be worked out probably requiring some repeaters to move some.

73, ron, n9ee/r

Ron Wright, N9EE
BSEE
Micro Computer Concepts
352-683-4476

From: Mike Christie <mzfb@...>
To: MSR2000@yahoogroups.com
Sent: Sun, August 1, 2010 10:38:31 PM
Subject: RE: [MSR2000] narrow banding in Ham Radio

Ron
I agree! people seem to forget what Hamradio is all about. Its the thrill of tweaking and peaking and watching the watt meter for the power to come up as the coils are adjusted. There are still people out there that like to build and convert equipment to use on our frequencies. That's what Hamradio is all about. I see this as a ploy for the equipment manufactures to increase their sales of new equipment. Boy the more I think about this the madder I get, just plain stupid. I work in Public Safety and yes there is a need for narrow banding there but not in Hamradio. The way things are moving there won't be anything left of Hamradio, surface mount technology and radio's that aren't radio's but are computers. When big balloon goes up the only systems that are going to work are simple single channel radio systems. This was proven time and time again in last few years. I hope by the time we really need to go narrowband, I'm up in

Radio Haven! Those that want digital go to D-star, there's a place for everyone on our frequencies, but don't take away the one thing that made Hamradio what it is day "experimentation" . If the Florida folks want more frequencies go after the repeaters that exists on paper but are not physically on the air.
Mike
W1ZFB

157. vhf manual

Yahoo group: MSR2000
Date: 2010-11-08 13:09:37 UTC
From: Maj Wright
Topic: 157 Message: 157

On e-bay there is a buy now for $20 MOTOROLA MSR2000 VHF BASE AND REPEATER STATION MANUAL

Item nr: 330493090164

73, ron, n9ee/r

158. Re: [MSR2000] vhf manual

Yahoo group: MSR2000
Date: 2010-11-10 18:38:13 UTC
From: Dan Cation
Topic: 157 Message: 158

Thanks for the heads up - He actually had 2 listed - I grabbed one and it's on the way - he says he should have at least one of the control manuals in a few days and has promised to let me have one of those as well.

73, Dan - WB0SHN

From: Maj Wright <mccrpt@att.net>
To: MSR2000@yahoogroups.com
Sent: Mon, November 8, 2010 7:09:37 AM
Subject: [MSR2000] vhf manual

On e-bay there is a buy now for $20 MOTOROLA MSR2000 VHF BASE AND REPEATER STATION MANUAL

Item nr: 330493090164

73, ron, n9ee/r

159. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2010-11-26 21:18:53 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 159

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /DUPLEXERS/Antenna Separtation.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : Antenna seperation when two antennas are used in a repeater syste.

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/DUPLEXERS/Antenna%20Separtation.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

160. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2010-11-26 21:21:44 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 160

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /DUPLEXERS/Duplexers.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : The technical info of duplexers.

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/DUPLEXERS/Duplexers.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

161. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2010-11-26 21:23:59 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 161

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /DUPLEXERS/Why a Duplexer.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : Why use a duplexer over two antennas.

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/DUPLEXERS/Why%20a%20Duplexer.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

162. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2010-11-27 21:27:48 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 162

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /DUPLEXERS/Duplexers pages 1-7.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : The technical info of duplexers pages 1-7

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/DUPLEXERS/Duplexers%20pages%201-7.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

163. manual on ebay

Yahoo group: MSR2000
Date: 2010-12-15 15:03:48 UTC
From: Maj Wright
Topic: 163 Message: 163

hi all,

On e-bay is MOTOROLA MSR 2000 VHF Base and Repeater Stations MANUAL, item nr 370462904904 buy now for $12.25 + $3.41 ship.

This is the RF part of the VHF manual. Very good price.

73, ron, n9ee/r

164. manual on ebay

Yahoo group: MSR2000
Date: 2010-12-24 19:04:40 UTC
From: Maj Wright
Topic: 163 Message: 164

hi all,

On e-bay is MSR2000 VHF MOTOROLA MSR 2000 VHF Base and Repeater Stations MANUAL for buy it now for $12.25 + ship.

Item nr 370462904904

73, ron, n9ee/r

165. MSR2000 Tone Squelch question

Yahoo group: MSR2000
Date: 2011-01-04 19:49:23 UTC
From: wb0shn
Topic: 165 Message: 165

I have been working on converting an MSR2000 VHF Base station into a HAM repeater. It was a carrier squelch model and I need tone. Not having a tone board or any commercial encoder/decoder boards available, and in the true "Ham Spirit" I decided to see what I could whip up. I came up with a board from my junkbox that has an MX Com MX465P set up as a decoder only. Minimum parts count. I have mounted this to a stripped card cage board and am wiring it to the cage through the tone card slot. I am not using the internal high pass audio filters, just the decoder portion. The chip is wired to pin 15 - the PL Filter input. I tried pin 17 (discriminator audio) but it would not work for some reason. I have it wired for AND squelch operation. My question is this - how much difference in sensitivity between the carrier squelch and tone is acceptable? I am seeing the CS open about .25 uv with no modulation present. When I add the 91.5Hz tone, the decoder needs about .3 to .35 uv to hold open with a 1KHz tone at 5 KHz deviation. I'd love to see a little better sensitivity with the tone, but am I in the ballpark here or not? It will hold open at the .3 uv setting when I drop the 1KHz tone deviation back a bit. Any thoughts or comments?

Thanks,
Dan

166. WTB- tone board and 91.5 Hz reed for MSR2000

Yahoo group: MSR2000
Date: 2011-01-04 20:04:13 UTC
From: wb0shn
Topic: 166 Message: 166

Does anyone have an extra Tone PL board and / or 91.5 Hz reed that they would like to sell? Let me know if you do and how much you want.

73 Dan

167. Motorola PI Tone reeds for sale

Yahoo group: MSR2000
Date: 2011-01-07 03:49:08 UTC
From: Tom
Topic: 167 Message: 167

Hi, our radio association has uncovered several hundred assorted Micor , Mitrek ,MSR2K etc reeds various freq. If Interested please contact for available freq's. and price . VE1TA , NSARA

168. narrow band conversion kit

Yahoo group: MSR2000
Date: 2011-02-10 13:39:24 UTC
From: Maj Wright
Topic: 168 Message: 168

hi all,

On e-bay is Motorola MSR-2000 VHF UHF Narrowband Conversion kit,
Item number: 110646437185 Price: Buy It Now US $125.00

I understand these conversions cannot be used on commercial unless the type acceptance is done on each rig. However, for Ham use it is legal.

I am sure the seller is taking off the shelf components, crystal IF filters and just turning down the deviation. You can probably do the same for much less.

Might take a look at http://www.com-spec.com/nucat10.htm

73, ron, n9ee/r

169. Re: [MSR2000] narrow band conversion kit

Yahoo group: MSR2000
Date: 2011-02-10 13:46:01 UTC
From: Ron Wright
Topic: 168 Message: 169

One other note on the MSR2000 narrow band kit.

As shown on the Comm Spec site; http://www.com-spec.com/nucat10.htm at the bottom are conversions for $25. The MSR2000 is not listed, but the Mitrek. I would think this kit would work on the MSR2000.

The Comm Spec ad list the kits for VHF 15 kHz and UHF 12.5 kHz spacing, but we in Florida have used 15 kHz spacing for years and so do most states. The council is going to 7.5 kHz spacing in 146/147 and 10 kHz in 145, not approved yet. As I've said I don't think I have a Ham rig that will do 7.5 kHz channels.

Any comments.
73, ron, n9ee/r

Ron Wright, N9EE
BSEE
Micro Computer Concepts
352-683-4476

From: Maj Wright <mccrpt@...>
To: MSR2000@yahoogroups.com
Sent: Thu, February 10, 2011 8:39:24 AM
Subject: [MSR2000] narrow band conversion kit

hi all,

On e-bay is Motorola MSR-2000 VHF UHF Narrowband Conversion kit,
Item number: 110646437185 Price: Buy It Now US $125.00

I understand these conversions cannot be used on commercial unless the type acceptance is done on each rig. However, for Ham use it is legal.

I am sure the seller is taking off the shelf components, crystal IF filters and just turning down the deviation. You can probably do the same for much less.

Might take a look at http://www.com-spec.com/nucat10.htm

73, ron, n9ee/r

170. Re: Motorola Pl Tone reeds for sale

Yahoo group: MSR2000
Date: 2011-03-11 16:02:56 UTC
From: Maj Wright
Topic: 167 Message: 170

I must have missed this posting.

I'm in need of some Mitrek/MSR2000 PL reeds, 146.2 and some others of about any freq.

Do you still have these?

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "Tom" <ve1ta@...> wrote:
>
> Hi, our radio association has uncovered several hundred assorted Micor , Mitrek ,MSR2K etc reeds various freq. If Interested please contact for available freq's. and price .
VE1TA , NSARA
>

171. Micor continuous duty PA on MSR2000

Yahoo group: MSR2000
Date: 2011-03-11 18:51:53 UTC
From: wb0shn
Topic: 171 Message: 171

I have a MSR2000 VHF with Intermittent duty PA. I have been playing with it at reduced power output on 2 meters (about 40 watts) but it still gets hotter than I would like to see it run. The location I intend to put this in is a very dusty dirty environment where fans just don't survive. I have seen comments about the continuous duty PA's being more robust. I have a couple VHF Micor PA's - they look very similar to the MSR2000 PA, including the schematic. Has anyone successfully wired up a Micor PA on a MSR2000 and if so, can you tell me how to wire it up? The connections look to be slightly different between the MSR2000 and the Micor. Any other suggestions on lowering the operating temp would also be appreciated.

73 - Dan

172. Re: Micor continuous duty PA on MSR2000

Yahoo group: MSR2000
Date: 2011-04-06 13:02:09 UTC
From: Maj Wright
Topic: 171 Message: 172

Don,

I think the SWR power control is different on the Micor and MSR2000 PAs. The power control module is similar, but on the MSR2000 the power control feeds voltage back to the exciter where on the Micor it is done in the Micor PA.

At one end of the MSR2000 PA is the cable to feed back this voltage which must be present for the exciter to put out power for drive.

I would recommend you get a MSR2000 PA. I often see them on e-bay. The only problem is although the MSR2000 was broken into 2 major bands splitting at 146 MHz making it easier than the Micor to put on 2m, the PAs are in 3 bands like the Micor. However, the 150-160 PA will work fine at 146. The part number is the 2901 for 136-150 and 2902 for 150-160 (I know I don't have the freqs exact). However, most are the 2902 version. These can be had for $50-75 + shipping.

Yes the continuous duty PA is much more robust then the intermittent duty. The continuous duty will run all day at 100W w/o fans. Not sure if the power supply is different. Would need to check this, but think only one power supply was provided.

I am sure you can adapt the Micor PA to your needs. Will take some engineering and work. Not much work once you find the solution.

73, ron, n9ee/r

--- In MSR2000@...m, "wb0shn" <wb0shn@...> wrote:
>
> I have a MSR2000 VHF with Intermittent duty PA. I have been playing with it at reduced power output on 2 meters (about 40 watts) but it still gets hotter than I would like to see it run. The location I intend to put this in is a very dusty dirty environment where fans just don't survive. I have seen comments about the continuous duty PA's being more robust. I have a couple VHF Micor PA's - they look very similar to the MSR2000 PA, including the schematic. Has anyone successfully wired up a Micor PA on a MSR2000 and if so, can you tell me how to wire it up? The connections look to be slightly different between the MSR2000 and the Micor. Any other suggestions on lowering the operating temp would also be appreciated.
>
> 73 - Dan
>

173. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2011-04-06 15:04:50 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 173

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /DUPLEXERS/db-224-data-sheet-(db).pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : DB224 2m antenna data sheet

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/DUPLEXERS/db-224-data-sheet-%28db%29.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>
```

174. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2011-04-06 15:06:55 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 174

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /DUPLEXERS/TWDS-7020.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : Telewave Super Station Master Antenna ANT150

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/DUPLEXERS/TWDS-7020.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

175. MSR2000 Cards For Sale

Yahoo group: MSR2000
Date: 2011-04-08 02:15:40 UTC
From: n5ske
Topic: 175 Message: 175

Have the following MSR2000 & Micor cards and reeds for sale. Also have two chassis' so if you need any specific parts let me know. These came out of a couple county & public safety base and repeaters pulled from service. Sold AS-IS.

Card Number Function Price Shipping
TRN5324A SQUELCH GATE $20 $5
TRN5235A LINE DRIVER $20 $5
TRN5320A F1-PL CONTROL MODULE $20 $5
TRN5320APR F1-PL CONTROL MODULE $20 $5
TRN5295A TIME OUT TIMER $20 $5
TRN5236A LINE DRIVER $20 $5
TRNN5321A STATION CONTROL $20 $5
TRN5321APR STATION CONTROL $20 $5
TRN9688APR R1 AUDIO $20 $5
TRN5070A R2 AUDIO $20 $5
TRN2443A GUARD TONE DECODE (2175 REED)$20 $5
TRN2443APR GUARD TONE DECODE (2175 REED)$20 $5
TRN5317A PAGING CONTROL MODULE $20 $5
TRN5074APR PL $20 $5
TRN5236APR LINE DRIVER $20 $5
TLD9232BPR EXCITER 155.370MHZ $35 $5
TLD9242CPR EXCITER 158.805MHZ $35 $5
TLD6232A RECEIVER 154.950MHZ $35 $5
TRD6182A RECEIVER 153.875MHZ W/PREAMP $35 $5
TRD6182A RECEIVER 155.370MHZ $35 $5

Micor
TRN3684BPR TIME OUT TIMER $20 $5
TLN4669BRP LINE DRIVER $20 $5
TLN4662APR SQUELCH GATE $20 $5
TLN4661A1 DC TRANSFER $20 $5
TLN4635B STATION CONTROL $20 $5

KLN6209A VIBRASPONDER 100.0 HZ (5EA) $5ea Shipped
KLN6209A VIBRASPONDER 107.2 HZ $5 Shipped
KLN6209A VIBRASPONDER 131.8 HZ $5 Shipped

KLN6210A VIBRASENDER 100.0 HZ (6EA) $5ea Shipped
KLN6210A VIBRASENDER 127.3 HZ (4EA) $5ea Shipped

Any question please contact me at rf_eng@..., I will not answer posts here.

Greg/N5SKE

176. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2011-04-18 17:43:39 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 176

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /FCC DA-11-675A1.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : FCC ruling April 15 2011 on HR607

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/FCC%20DA-11-675A1.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

177. HR607 affecting 420-440 MHz Ham Band

Yahoo group: MSR2000
Date: 2011-04-18 17:43:12 UTC
From: Ron Wright
Topic: 177 Message: 177

hi all,

Just got a copy of the FCC ruling on the 420-440 band and HR607.

I posted in FILES of this board.

73, ron, n9ee/r

178. NEED HELP WITH MICOR COMMUNITY REPEATERS

Yahoo group: MSR2000
Date: 2011-05-18 03:05:06 UTC
From: UNCLE GUIDO
Topic: 178 Message: 178

Hi All,
I am in the midst of a few Micor Community Repeaters that are being brought back to life. I am aware that the ole Micor in a community setup is a great find.

I have one up and running now and have 2 more to go. I am in need of experienced Micor installation and repair techie. I am new to the Micor and I have a basic set of manuals to work from.

If there are a few of you who would be kind enough to give me assistance on design , engineering tricks and tweeks I would be greatly appreciative.

I have stories from folks on how many Micor Reed control cards can be on a shelf , stories about matching dpl and apl and how to make sure the back plain is ready. These will be the type of questions I will have.Right now I have a dpl and a apl card in a slot . I am being told I can just add 2 more slots in the shef and increace groups i can get on the community rptr. The problem is these folks are unable to give any guidance as to how this is done.

So if a few fellow rptr builders could aid me as i get these up and going it would greatly speed up the turnkey of these repeaters.

please just drop me a note if care to help or if you have Micor eqpt for sale. just drop a note to slars1327@... or post a message here and we can begin.

thanks in advance for any and all help.

Scott

179. preamp needed

Yahoo group: MSR2000
Date: 2011-05-19 17:32:37 UTC
From: Ron Wright
Topic: 179 Message: 179

hi all,

I need a VHF preamp for Mitrek/MSR2000, the plug into helical type.

If you have one let me know the price.

73, ron, n9ee/r

180. Re: NEED HELP WITH MICOR COMMUNITY REPEATERS

Yahoo group: MSR2000
Date: 2011-05-20 13:56:12 UTC
From: Ron Wright
Topic: 178 Message: 180

Scott,

Might tell us where you are located. Also are you working on VHF, UHF or some other band???

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "UNCLE GUIDO" <slars1327@...> wrote:
>
> Hi All,
> I am in the midst of a few Micor Community Repeaters that are being brought back to life. I am aware that the ole Micor in a community setup is a great find.
>
> I have one up and running now and have 2 more to go. I am in need of experienced Micor installation and repair techie. I am new to the Micor and I have a basic set of manuals to work from.
>
> If there are a few of you who would be kind enough to give me assistance on design , engineering tricks and tweeks I would be greatly appreciative.
>
> I have stories from folks on how many Micor Reed control cards can be on a shelf , stories about matching dpl and apl and how to make sure the back plain is ready. These will be the type of questions I will have.Right now I have a dpl and a apl card in a slot . I am being told I can just add 2 more slots in the shef and increace groups i can get on the community rptr. The problem is these folks are unable to give any guidance as to how this is done.
>
> So if a few fellow rptr builders could aid me as i get these up and going it would greatly speed up the turnkey of these repeaters.
>
> please just drop me a note if care to help or if you have Micor eqpt for sale. just drop a note to slars1327@... or post a message here and we can begin.
>
> thanks in advance for any and all help.
>
> Scott
>

181. Re: [MSR2000] Re: NEED HELP WITH MICOR COMMUNITY REPEATERS

Yahoo group: MSR2000
Date: 2011-05-20 14:02:22 UTC
From: JIM Rogers
Topic: 178 Message: 181

Ron I E-mailed Scott and told him I had some Micor test sets I had removed from some repeaters we took out of service. No reply. Jim

---
From: Ron Wright <mccrpt@...>
To: MSR2000@yahoogroups.com
Sent: Friday, May 20, 2011 8:56 AM
Subject: [MSR2000] Re: NEED HELP WITH MICOR COMMUNITY REPEATERS

Scott,

Might tell us where you are located. Also are you working on VHF, UHF or some other band???

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, "UNCLE GUIDO" <slars1327@...> wrote:
>
> Hi All,
> I am in the midst of a few Micor Community Repeaters that are being brought back to life. I am aware that the ole Micor in a community setup is a great find.
>
> I have one up and running now and have 2 more to go. I am in need of experienced Micor installation and repair techie. I am new to the Micor and I have a basic set of manuals to work from.
>
> If there are a few of you who would be kind enough to give me assistance on design , engineering tricks and tweeks I would be greatly appreciative.
>
> I have stories from folks on how many Micor Reed control cards can be on a shelf , stories about matching dpl and apl and how to make sure the back plain is ready. These will be the type of questions I will have.Right now I have a dpl and a apl card in a slot . I am being told I can just add 2 more slots in the shef and increace groups i can get on the community rptr. The problem is these folks are unable to give any guidance as to how this is done.
>
> So if a few fellow rptr builders could aid me as i get these up and going it would greatly speed up the turnkey of these repeaters.
>
> please just drop me a note if care to help or if you have Micor eqpt for sale. just drop a note to slars1327@... or post a message here and we can begin.
>
> thanks in advance for any and all help.
>
> Scott
>

182. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2011-05-20 15:06:11 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 182

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /MSR2000 Equipment Info/MSR2000 manual and component information.rtf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : Part numbers for MSR2000 exciters, receivers and PAs.

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/MSR2000%20Equipment%20Info/MSR2000%20manual%20and%20component%20information.rtf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

183. MSR2000 receiver problem on a repeater

Yahoo group: MSR2000
Date: 2011-06-16 20:36:44 UTC
From: AlanM
Topic: 183 Message: 183

I have a UHF MSR2000 repeater that I'm assembling and having some issues. For reference I have the exciter fed into a dummy load for testing, and have the duplexer removed.

Both my receiver and exciter are good individually, but when I key a portable into the repeater I hear audio for a split second through the repeater, then it drops. This keying cycles every second or so until I unkey the portable. When I pull the station control module I hear good audio from the repeater speaker, but when I plug the SCM back into the rack I get the curchunking again.

I can key my transmitter using the station control module or the microphone and have good output audio from the mic. I have also used several station control modules, and several squelch gate cards with the same results (these cards tested good in other repeaters).

Are there some jumpers on the back plane that could cause what appears to be muting of the receiver that keeps it from repeating? My cabinet could have possibly been setup as a control station in the past, and not a repeater.

Thank you,

Alan McClain - KA4BNI

184. Re: [MSR2000] MSR2000 receiver problem on a repeater

Yahoo group: MSR2000
Date: 2011-06-16 21:24:18 UTC
From: Tony Lelieveld
Topic: 183 Message: 184

Alan,

Has jumper JU-101 been installed across the emitter and collector of Q102 on the receiver board? It has to be installed for RPTR operation.

See Note-4 on the RX schematic.

73, Tony VE3DWI
Sent wirelessly from my BlackBerry device on the Bell network.Envoyé sans fil par mon terminal mobile BlackBerry sur le réseau de Bell.

-----Original Message-----
From: "AlanM" <ka4bni@frontiernet.net>
Sender: MSR2000@yahoogroups.com
Date: Thu, 16 Jun 2011 20:36:44
To: <MSR2000@yahoogroups.com>
Reply-To: MSR2000@yahoogroups.com
Subject: [MSR2000] MSR2000 receiver problem on a repeater

I have a UHF MSR2000 repeater that I'm assembling and having some issues. For reference I have the exciter fed into a dummy load for testing, and have the duplexer removed.

Both my receiver and exciter are good individually, but when I key a portable into the repeater I hear audio for a split second through the repeater, then it drops. This keying cycles every second or so until I unkey the portable. When I pull the station control module I hear good audio from the repeater speaker, but when I plug the SCM back into the rack I get the curchunking again.

I can key my transmitter using the station control module or the microphone and have good output audio from the mic. I have also used several station control modules, and several squelch gate cards with the same results (these cards tested good in other repeaters).

Are there some jumpers on the back plane that could cause what appears to be muting of the receiver that keeps it from repeating? My cabinet could have possibly been setup as a control station in the past, and not a repeater.

Thank you,

Alan McClain - KA4BNI

185. Re: MSR2000 receiver problem on a repeater

Yahoo group: MSR2000
Date: 2011-06-17 14:10:16 UTC
From: AlanM
Topic: 183 Message: 185

I will check for the jumper and get back with you. Thank you for the information.

Alan McClain - KA4BNI

--- In MSR2000@yahoogroups.com, "Tony Lelieveld" <va3dwi@...> wrote:
>
> Alan,
>
> Has jumper JU-101 been installed across the emitter and collector of Q102 on the receiver board? It has to be installed for RPTR operation.
>
> See Note-4 on the RX schematic.
>
> 73, Tony VE3DWI
> Sent wirelessly from my BlackBerry device on the Bell network.Envoyé sans fil par mon terminal mobile BlackBerry sur le réseau de Bell.
>
> -----Original Message-----
> From: "AlanM" <ka4bni@...>
> Sender: MSR2000@yahoogroups.com
> Date: Thu, 16 Jun 2011 20:36:44
> To: <MSR2000@yahoogroups.com>
> Reply-To: MSR2000@yahoogroups.com
> Subject: [MSR2000] MSR2000 receiver problem on a repeater
>
> I have a UHF MSR2000 repeater that I'm assembling and having some issues. For reference I have the exciter fed into a dummy load for testing, and have the duplexer removed.
>
> Both my receiver and exciter are good individually, but when I key a portable into the repeater I hear audio for a split second through the repeater, then it drops. This keying cycles every second or so until I unkey the portable. When I pull the station control module I hear good audio from the repeater speaker, but when I plug the SCM back into the rack I get the curchunking again.
>
> I can key my transmitter using the station control module or the microphone and have good output audio from the mic. I have also used several station control modules, and several squelch gate cards with the same results (these cards tested good in other repeaters).
>
> Are there some jumpers on the back plane that could cause what appears to be muting of the receiver that keeps it from repeating? My cabinet could have possibly been setup as a control station in the past, and not a repeater.
>
> Thank you,
>
> Alan McClain - KA4BNI

>

186. Re: MSR2000 receiver problem on a repeater

Yahoo group: MSR2000
Date: 2011-06-20 01:43:50 UTC
From: AlanM
Topic: 183 Message: 186

Ju-101 was the culprit. I also found some jumpers on the back plane that were not correct. Thank you again for the help.

Alan

--- In MSR2000@yahoogroups.com, "AlanM" <ka4bni@...> wrote:
>
> I will check for the jumper and get back with you. Thank you for the information.
>
> Alan McClain - KA4BNI
>
> --- In MSR2000@yahoogroups.com, "Tony Lelieveld" <va3dwi@> wrote:
> >
> > Alan,
> >
> > Has jumper JU-101 been installed across the emitter and collector of Q102 on the receiver board? It has to be installed for RPTR operation.
> >
> > See Note-4 on the RX schematic.
> >
> > 73, Tony VE3DWI
> > Sent wirelessly from my BlackBerry device on the Bell network.Envoyé sans fil par mon terminal mobile BlackBerry sur le réseau de Bell.
> >
> > -----Original Message-----
> > From: "AlanM" <ka4bni@>
> > Sender: MSR2000@yahoogroups.com
> > Date: Thu, 16 Jun 2011 20:36:44
> > To: <MSR2000@yahoogroups.com>
> > Reply-To: MSR2000@yahoogroups.com
> > Subject: [MSR2000] MSR2000 receiver problem on a repeater
> >
> > I have a UHF MSR2000 repeater that I'm assembling and having some issues. For reference I have the exciter fed into a dummy load for testing, and have the duplexer removed.
> >
> > Both my receiver and exciter are good individually, but when I key a portable into the repeater I hear audio for a split second through the repeater, then it drops. This keying cycles every second or so until I unkey the portable. When I pull the station control module I hear good audio from the repeater speaker, but when I plug the SCM back into the rack I get the curchunking again.
> >
> > I can key my transmitter using the station control module or the microphone and have good output audio from the mic. I have also used several station control modules, and several squelch gate cards with the same results (these cards tested good in other repeaters).

> >
> > Are there some jumpers on the back plane that could cause what appears to be muting of the receiver that keeps it from repeating? My cabinet could have possibly been setup as a control station in the past, and not a repeater.
> >
> > Thank you,
> >
> > Alan McClain - KA4BNI
> >
>

187. Re: [MSR2000] Re: MSR2000 receiver problem on a repeater

Yahoo group: MSR2000
Date: 2011-06-20 03:56:05 UTC
From: Tony Lelieveld
Topic: 183 Message: 187

Your most welcome. Glad to have been of help. Good luck with the rest of your project.

Tony, VE3DWI

Sent wirelessly from my BlackBerry device on the Bell network.Envoyé sans fil par mon terminal mobile BlackBerry sur le réseau de Bell.

-----Original Message-----
From: "AlanM" <ka4bni@frontiernet.net>
Sender: MSR2000@yahoogroups.com
Date: Mon, 20 Jun 2011 01:43:50
To: <MSR2000@yahoogroups.com>
Reply-To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: MSR2000 receiver problem on a repeater

Ju-101 was the culprit. I also found some jumpers on the back plane that were not correct. Thank you again for the help.

Alan

--- In MSR2000@yahoogroups.com, "AlanM" <ka4bni@...> wrote:
>
> I will check for the jumper and get back with you. Thank you for the information.
>
> Alan McClain - KA4BNI
>
> --- In MSR2000@yahoogroups.com, "Tony Lelieveld" <va3dwi@> wrote:
> >
> > Alan,
> >
> > Has jumper JU-101 been installed across the emitter and collector of Q102 on the receiver board? It has to be installed for RPTR operation.
> >
> > See Note-4 on the RX schematic.
> >
> > 73, Tony VE3DWI
> > Sent wirelessly from my BlackBerry device on the Bell network.Envoyé sans fil par mon terminal mobile BlackBerry sur le réseau de Bell.
> >
> > -----Original Message-----
> > From: "AlanM" <ka4bni@>
> > Sender: MSR2000@yahoogroups.com
> > Date: Thu, 16 Jun 2011 20:36:44
> > To: <MSR2000@yahoogroups.com>
> > Reply-To: MSR2000@yahoogroups.com
> > Subject: [MSR2000] MSR2000 receiver problem on a repeater

> >
> > I have a UHF MSR2000 repeater that I'm assembling and having some issues. For reference I have the exciter fed into a dummy load for testing, and have the duplexer removed.
> >
> > Both my receiver and exciter are good individually, but when I key a portable into the repeater I hear audio for a split second through the repeater, then it drops. This keying cycles every second or so until I unkey the portable. When I pull the station control module I hear good audio from the repeater speaker, but when I plug the SCM back into the rack I get the curchunking again.
> >
> > I can key my transmitter using the station control module or the microphone and have good output audio from the mic. I have also used several station control modules, and several squelch gate cards with the same results (these cards tested good in other repeaters).
> >
> > Are there some jumpers on the back plane that could cause what appears to be muting of the receiver that keeps it from repeating? My cabinet could have possibly been setup as a control station in the past, and not a repeater.
> >
> > Thank you,
> >
> > Alan McClain - KA4BNI
> >
>

188. preamp needed

Yahoo group: MSR2000
Date: 2011-07-09 13:29:02 UTC
From: Ron Wright, N9EE
Topic: 179 Message: 188

hi all,

I am in need of a pre-amp for the Mitrek or MSR2000...same for both.

If you have one for sale let me know.

73, ron, n9ee/r

189. ID-O-Matic II

Yahoo group: MSR2000
Date: 2011-07-15 02:28:36 UTC
From: shibukiau
Topic: 189 Message: 189

I wonder if anyone on the group has ever wired in one of N0XAS's ID-O-MaticII CW ID'ers into a MSR 2000?

If so, could they share their connection and setup details as this would save me some time in getting my repeater up and running!

Thanks!
LLoyd
VE3ERQ/VK4ERQ

190. Re: [MSR2000] ID-O-Matic II

Yahoo group: MSR2000
Date: 2011-07-15 19:22:44 UTC
From: Doug Chauvin
Topic: 189 Message: 190

Not to MRS2000 but I have to a MICOR, wired it to the inside of the squelch gate card. All of the needed connections are there.
It should work fine in a MSR2000 as well.
Doug N8PYN

Sent from my iPod

On Jul 14, 2011, at 9:28 PM, "shibukiau" <kubisl@...> wrote:

> I wonder if anyone on the group has ever wired in one of N0XAS's ID-O-MaticII CW ID'ers into a MSR 2000?
>
> If so, could they share their connection and setup details as this would save me some time in getting my repeater up and running!
>
> Thanks!
> LLoyd
> VE3ERQ/VK4ERQ
>
>

191. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2011-07-17 20:33:42 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 191

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /Side mount antenna patterns.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : Patterns for side mounted vertical antennas for 160, 450 & 800 MHz.

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/Side%20mount%20antenna%20patterns.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

192. Power Amplifier Question

Yahoo group: MSR2000
Date: 2011-07-29 12:51:35 UTC
From: iam4thapack
Topic: 192 Message: 192

Can someone on here verify for me that the Mitrek Mobile P.A.'s will work on a MSR-2000 repeater heatsink? I have a VHF hi 100W continuous duty repeater with a bad power amplifier. I have found some 60, 75, and 110W mobiles that have good P.A.'s in them. I have to buy the whole bunch and wanted to know if the modules will swap over to the heatsink before I make the purchase. The seller does not have any photos to send to me. I am quite certain a UHF mobile will swap to a UHF heat sink but want to be certain on the VHF stuff.

Thanks

Shane KI4M

193. Wanted: UHF receiver

Yahoo group: MSR2000
Date: 2011-08-16 13:18:54 UTC
From: WA2RJP
Topic: 193 Message: 193

Im looking for an MSR 2000 UHF receiver that will work in the ham bands. I have VHF MSR 2000 and Micor parts to trade or cash if necessary.

Anyone have a spare?

tnx,

Jim

194. VHF MSR2000 Squelch Tail

Yahoo group: MSR2000
Date: 2011-09-02 16:22:19 UTC
From: Rick
Topic: 194 Message: 194

Hello All, I have a VHF MSR2000 repeater set up on 146.610 with an external controller. There is about a 2 second tail built into the MSR2000 that holds the connected link radio's PTT closed after input to the repeater drops. I would like zero built in tail and the controller taking care of any desired tail and reset tones. It annoys me I can't seem to figure out how to fix this. I figure it must be a jumper on the Audio Squelch board but can't seem to find any mention in the service manuals. Any help? Rick KC0HH

195. RE: [MSR2000] VHF MSR2000 Squelch Tail

Yahoo group: MSR2000
Date: 2011-09-02 17:26:28 UTC
From: Ron Wright
Topic: 194 Message: 195

Rick,
Are you using the SQ Gate card??? If so you need to cut the ptt line on this card. If you do not then if you shut down the external controller the repeater will still key with user input and is probably what is keying the repeater now with the tail.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: kc0hh@...
Date: Fri, 2 Sep 2011 16:22:19 +0000
Subject: [MSR2000] VHF MSR2000 Squelch Tail

Hello All, I have a VHF MSR2000 repeater set up on 146.610 with an external controller. There is about a 2 second tail built into the MSR2000 that holds the connected link radio's PTT closed after input to the repeater drops. I would like zero built in tail and the controller taking care of any desired tail and reset tones. It annoys me I can't seem to figure out how to fix this. I figure it must be a jumper on the Audio Squelch board but can't seem to find any mention in the service manuals. Any help? Rick KC0HH

196. Re: [MSR2000] VHF MSR2000 Squelch Tail

Yahoo group: MSR2000
Date: 2011-09-02 18:59:53 UTC
From: Mike Morris
Topic: 194 Message: 196

At 09:22 AM 09/02/11, you wrote:

>Hello All, I have a VHF MSR2000 repeater set up on 146.610 with an
>external controller. There is about a 2 second tail built into the
>MSR2000 that holds the connected link radio's PTT closed after input
>to the repeater drops. I would like zero built in tail and the
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>annoys me I can't seem to figure out how to fix this. I figure it
>must be a jumper on the Audio Squelch board but can't seem to find
>any mention in the service manuals. Any help? Rick KC0HH

That delay is in the squelch gate card - which isn't
really needed if you are using an external controller.

Look at the docs for that card and move the jumper to zero delay.

Mike WA6ILQ

197. Re: [MSR2000] VHF MSR2000 Squelch Tail

Yahoo group: MSR2000
Date: 2011-09-02 22:11:34 UTC
From: Rick KC0HH
Topic: 194 Message: 197

Sorry, I should have given more info on what I am using. No Squelch Gate card .... MSR2000 is set up for CTCSS decode/encode using 'AND" squelch. Only using Station Control card, along with R1 Audio board , TRN5073 PL board, and Timeout Timer card set for four minutes. I thought it might have something to do with the PL board, but the delayed squelch tail is present even if I slide the PL Disable switch and use just carrier squelch to key repeater. If I slide the PTT switch to key the transmitter, it drops as soon as I release the slide switch.

73' Rick KC0HH
Lamar, Colorado

--- On Fri, 9/2/11, Mike Morris <wa6ilq1@verizon.net> wrote:

From: Mike Morris <wa6ilq1@...>
Subject: Re: [MSR2000] VHF MSR2000 Squelch Tail
To: MSR2000@yahoogroups.com
Date: Friday, September 2, 2011, 12:59 PM

At 09:22 AM 09/02/11, you wrote:

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repeater set up on 146.610 with an external controller. There is about a
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figure it must be a jumper on the Audio Squelch board but can't seem to
find any mention in the service manuals. Any help? Rick
KC0HH

That delay is in the squelch gate card - which isn't

really needed if you are using an external controller.

Look at the docs for that card and move the jumper to zero
delay.

Mike WA6ILQ

198. Pl Decoder board needed

Yahoo group: MSR2000
Date: 2011-09-03 13:57:29 UTC
From: wb0shn
Topic: 198 Message: 198

Anyone have a MSR2000 PL decoder board that they would like to sell (hopefully fairly cheap)? I have been watching ebay and all I have found are complete card cages or lots of cards that they want $100 or so for. Any help on this would be appreciated - I'm on a tight budget.

73 Dan

199. Re: [MSR2000] VHF MSR2000 Squelch Tail

Yahoo group: MSR2000
Date: 2011-09-03 14:27:56 UTC
From: Dan Cation
Topic: 194 Message: 199

You say you have decode and encode - I don't believe the switch cuts out the encode, just the decode - could the encoder be holding the transmitter up ?

Dan

200. Re: [MSR2000] VHF MSR2000 Squelch Tail

Yahoo group: MSR2000
Date: 2011-09-03 15:25:06 UTC
From: Rick KC0HH
Topic: 194 Message: 200

Hi Dan,

Not sure if it is the encoder holding up the squelch tail. I tried a different PL board and it does the same thing. I have linked repeaters here tied to my IRLP node. The repeaters and the node are on UHF link frequency. I can watch the signal on my dual band radio here at the house and when I unkey the VHF repeater, it takes two seconds for the link signal to drop. It should be immediate. This ends up keeping the linked repeaters from dropping. It is just annoying

I do have a TRN 5073 PL board you can have. It works fine as I swapped it into my 146.610 repeater and the long squelch tail was still there. The State of Colorado TeleComm Department donated several VHF MSR2000 repeaters to us. I have one I can part out. You can have the PL board out of it for the cost of shipping if you like. If anyone else needs any boards or parts, same deal.

You can call me on IRLP node 3774

73' Rick KC0HH
Lamar, Colorado

--- On Sat, 9/3/11, Dan Cation <wb0shn@yahoo.com> wrote:

From: Dan Cation <wb0shn@...>
Subject: Re: [MSR2000] VHF MSR2000 Squelch Tail
To: "MSR2000@yahoogroups.com" <MSR2000@yahoogroups.com>
Date: Saturday, September 3, 2011, 8:27 AM

You say you have decode and encode - I don't believe the switch cuts out the encode, just the decode - could the encoder be holding the transmitter up ?

Dan

201. Re: [MSR2000] Digest Number 102

Yahoo group: MSR2000
Date: 2011-09-04 14:22:37 UTC
From: k2wd@comcast.net
Topic: 201 Message: 201

Run this simple test -

Does the squelch sound nice and short if you send a carrier only signal into the receiver? (i.e. no valid pl tone on the incoming signal). If so, ...

The issue is that the pl decoder's logic signal,when active, is telling the msr's squelch circuit to remain open, essentially bypassing the squelch circuit whenever a valid pl tone is present on the user's signal. What you need to do is modify the audio&squelch board. I don't have the manuals handy at the moment, but look at them. You will see that one of the pins on the card is the incoming pl detect logic signal from the back plane. Simply cut the trace close to the pin. Or, I believe there is one end of a diode and one leg of a transistor tied to this trace. Lift both legs and resolder them together above the board itself. This will completely isolate the pl decode logic from the squelch logic circuit.

Now, regardless of whether or not there is a valid pl tone on the user's signal, the carrier squelch signal will always function properly, as it is no longer being disabled (overridden) by a present pl tone.

And the external controller can now do its job choosing whether to be in carrier, pl, or any combination thereof, as long as you have the two separate cos and pl detect logic signals wired to the controller properly.

I believe a good point for cos is pin 5, and pl detect is pin 14, both at the slot where the squelch gate card would otherwise go. Actually, you can find all necessary connections at this card location (rx audio pin 17, tx audio pin 11, ptt pin 18, etc). Its been awhile, so you will need to confirm those pin numbers.

Eric
K2CB

Sent on the Sprint® Now Network from my BlackBerry®

-----Original Message-----
From: MSR2000@yahoogroups.com
Date: 4 Sep 2011 10:40:55
To: <MSR2000@yahoogroups.com>
Reply-To: "No Reply"<notify-dg-MSR2000@yahoogroups.com>
Subject: [MSR2000] Digest Number 102

MSR2000 Repeater/Radio Equipment

MSR2000 Repeater/Radio Equipment <http://groups.yahoo.com/group/MSR2000;_ylc=X3oDMTJlczBubzU1BF9TAzk3MzU5NzE1BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDaGRyBHNsawNocGgEc3RpbWUDMTMxNTEzMjg1NQ-->

Messages In This Digest (3 Messages)

1.
Pl Decoder board needed From: wb0shn

2a.
Re: VHF MSR2000 Squelch Tail From: Dan Cation 2b.
Re: VHF MSR2000 Squelch Tail From: Rick KC0HH

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Messages

1.

Pl Decoder board needed <http://groups.yahoo.com/group/MSR2000/message/198;_ylc=X3oDMTJxZDZ1OXR1BF9TAzk3MzU5NzE1BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMxOTgEc2VjA2Rtc2cEc2xrA3Ztc2cEc3RpbWUDMTMxNTEzMjg1NQ-->

Posted by: "wb0shn"
wb0shn@yahoo.com <mailto:wb0shn@yahoo.com?Subject= Re%3A%20Pl%20Decoder%20board%20needed>

wb0shn
<http://profiles.yahoo.com/wb0shn>

Sat Sep 3, 2011 6:57 am (PDT)

Anyone have a MSR2000 PL decoder board that they would like to sell (hopefully fairly cheap)? I have been watching ebay and all I have found are complete card cages or lots of cards that they want $100 or so for. Any help on this would be appreciated - I'm on a tight budget.

73 Dan

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2a.

Re: VHF MSR2000 Squelch Tail <http://groups.yahoo.com/group/MSR2000/message/199;_ylc=X3oDMTJxY2hocWgzBF9TAzk3MzU5NzE1BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMxOTkEc2V

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Posted by: "Dan Cation"
wb0shn@yahoo.com <mailto:wb0shn@yahoo.com?Subject= Re%3A%20VHF%20MSR2000%20Squelch%20Tail>

wb0shn
<http://profiles.yahoo.com/wb0shn>

Sat Sep 3, 2011 7:27 am (PDT)

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Re: VHF MSR2000 Squelch Tail <http://groups.yahoo.com/group/MSR2000/message/200;_ylc=X3oDMTJxdnVsc29vBF9TAzk3MzU5NzE1BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMyMDAEc2VjA2Rtc2cEc2xrA3Ztc2cEc3RpbWUDMTMxNTEzMjg1NQ-->

Posted by: "Rick KC0HH"
kc0hh@yahoo.com <mailto:kc0hh@yahoo.com?Subject= Re%3A%20VHF%20MSR2000%20Squelch%20Tail>
kc0hh
<http://profiles.yahoo.com/kc0hh>

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Subject: Re: [MSR2000] VHF MSR2000 Squelch Tail
To: "MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> " <MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> >
Date: Saturday, September 3, 2011, 8:27 AM

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calendar;_ylc=X3oDMTJlZ2ZuanZnBF9TAzk3MzU5NzE1BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEw
OARzZWMDZnRyBHNsawNjYWwEc3RpbWUDMTMxNTEzMjg1NQ-->

MARKETPLACE

A bad score is 579. A good idea is checking yours at freecreditscore.com. <http://global.a
rd.yahoo.com/SIG=15o9lglqr/M=791726.14847541.14590405.10835568/D=groups/S=1705063108:MKP1/
Y=YAHOO/EXP=1315140055/L=5e823828-d6e2-11e0-9fe2-1f0618e310ee/B=y2MqDtGDJGQ-/J=13151328558
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41.14590405.10835568%2fD%3dMKP1%2fB%3d6475085%2fV%3d1>

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Toolbar now. <http://global.ard.yahoo.com/SIG=15o8jsusr/M=493064.14543979.14562481.1329843
0/D=groups/S=1705063108:MKP1/Y=YAHOO/EXP=1315140055/L=5e823828-d6e2-11e0-9fe2-1f0618e310ee
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Change settings via the Web <http://groups.yahoo.com/group/MSR2000/join;_ylc=X3oDMTJnbW9ha
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Change settings via email: Switch delivery to Individual
<mailto:MSR2000-normal@yahoogroups.com?subject=Email Delivery: Indiviual Email> | Switch
format to Traditional <mailto:MSR2000-traditional@yahoogroups.com?subject=Change Delivery
Format: Traditional>

Visit Your Group <http://groups.yahoo.com/group/MSR2000;_ylc=X3oDMTJlcWp1N2R2BF9TAzk3MzU5N
zE1BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNocGYEc3RpbWUDMTMxNTEzMjg
1NQ--> |

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Unsubscribe <mailto:MSR2000-unsubscribe@yahoogroups.com?subject=Unsubscribe> <http://geo.y
ahoo.com/serv?s=97359715/grpId=22176058/grpspId=1705063108/msgId=102/stime=1315132855/nc1=
4025373/nc2=5741391/nc3=5191953>

202. Re: Digest Number 102

Yahoo group: MSR2000
Date: 2011-09-05 05:24:02 UTC
From: Rick
Topic: 201 Message: 202

Hi Eric,

I grabbed my MSR2000 manual and yes, I see the connection you refer to. On the R1 Audio/squelch board, Pin 3 (PL Detect) connects to the anode of C108 and collector of Q106. I have another R1 board and will do the mod. I will swap it out and see how it works. Thanks.

Rick KC0HH
Lamar, Colorado

--- In MSR2000@yahoogroups.com, k2wd@... wrote:
>
> Run this simple test -
>
> Does the squelch sound nice and short if you send a carrier only signal into the receiver? (i.e. no valid pl tone on the incoming signal). If so, ...
>
> The issue is that the pl decoder's logic signal,when active, is telling the msr's squelch circuit to remain open, essentially bypassing the squelch circuit whenever a valid pl tone is present on the user's signal. What you need to do is modify the audio&squelch board. I don't have the manuals handy at the moment, but look at them. You will see that one of the pins on the card is the incoming pl detect logic signal from the back plane. Simply cut the trace close to the pin. Or, I believe there is one end of a diode and one leg of a transistor tied to this trace. Lift both legs and resolder them together above the board itself. This will completely isolate the pl decode logic from the squelch logic circuit.
>
> Now, regardless of whether or not there is a valid pl tone on the user's signal, the carrier squelch signal will always function properly, as it is no longer being disabled (overridden) by a present pl tone.
>
> And the external controller can now do its job choosing whether to be in carrier, pl, or any combination thereof, as long as you have the two separate cos and pl detect logic signals wired to the controller properly.
>
> I believe a good point for cos is pin 5, and pl detect is pin 14, both at the slot where the squelch gate card would otherwise go. Actually, you can find all necessary connections at this card location (rx audio pin 17, tx audio pin 11, ptt pin 18, etc). Its been awhile, so you will need to confirm those pin numbers.
>
> Eric
> K2CB
>
> Sent on the SprintÂ® Now Network from my BlackBerryÂ®

203. 2135 key

Yahoo group: MSR2000
Date: 2011-09-06 18:36:20 UTC
From: Ron Wright, N9EE
Topic: 203 Message: 203

hi all,

On ebay is for sale 2135 Mot key, item #320753857278 for buy now $2 w/free shipping. It is used to open Mitreks, Micors and MSR2000 cabinet and I am sure more.

73, ron, n9ee/r

204. Re: Pl Decoder board needed

Yahoo group: MSR2000
Date: 2011-09-10 02:29:24 UTC
From: wb0shn
Topic: 198 Message: 204

I have found a PL encoder / decoder board. I would still be interested in a 91.5 Hz reed for the decode side if anyone has one. Thanks for the offers on the board. - 73
dan

--- In MSR2000@yahoogroups.com, "wb0shn" <wb0shn@...> wrote:
>
> Anyone have a MSR2000 PL decoder board that they would like to sell (hopefully fairly cheap)? I have been watching ebay and all I have found are complete card cages or lots of cards that they want $100 or so for. Any help on this would be appreciated - I'm on a tight budget.
>
> 73 Dan
>

205. radio programming software

Yahoo group: MSR2000
Date: 2011-09-12 08:31:39 UTC
From: Ron Wright, N9EE
Topic: 205 Message: 205

hi all,

At this site is programming software for many radios.

http://www.hampedia.net/

I will post in the LINKS of this board.

73, ron, n9ee/r

206. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2011-09-12 08:39:35 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 206

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /DUPLEXERS/Receiver Desense & Noise.rtf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : Receiver desense info

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/DUPLEXERS/Receiver%20Desense%20%26%20Noise.rtf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

207. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2011-09-12 08:42:21 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 207

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /bird-43-wattmeter-2001.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : Bird 43 wattmeter manual

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/bird-43-wattmeter-2001.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>
```

208. Reedless PL for MSR 2000

Yahoo group: MSR2000
Date: 2011-09-21 02:16:52 UTC
From: ejgrabowski
Topic: 208 Message: 208

Anyone know if Motorola ever made a PL module that plugged into the MSR control chassis that did not use Vibrasponders? Something along the lines of what they had for the Mitrek mobiles.
73, Eric KH6CQ

209. Re: [MSR2000] Reedless PL for MSR 2000

Yahoo group: MSR2000
Date: 2011-09-21 02:39:58 UTC
From: Jim Lange
Topic: 208 Message: 209

I have never seen mention of a reedless PL board from Motorola for the MSR 2000. I recently took an R2 audio board that was a non PL variety and added a Comm Spec TS-64 to it to add PL capability. It shouldn't be too hard to do the same thing to replace the reed type PL board.

Jim
WA2RJP

----- Original Message -----
From: ejgrabowski
To: MSR2000@yahoogroups.com
Sent: Tuesday, September 20, 2011 22:16
Subject: [MSR2000] Reedless PL for MSR 2000

Anyone know if Motorola ever made a PL module that plugged into the MSR control chassis that did not use Vibrasponders? Something along the lines of what they had for the Mitrek mobiles.
73, Eric KH6CQ

210. Re: [MSR2000] Reedless PL for MSR 2000

Yahoo group: MSR2000
Date: 2011-09-21 03:27:40 UTC
From: Rick KC0HH
Topic: 208 Message: 210

Yep, TRN5076A DPL duplex board and TRN5077A simpex board. Pretty scarce but they do exist. Boards are identical except one set of chips is missing in the 5077.

73' Rick KC0HH
Lamar, Colorado

--- On Tue, 9/20/11, ejgrabowski <ejgrabowski@...> wrote:

From: ejgrabowski <ejgrabowski@...>
Subject: [MSR2000] Reedless PL for MSR 2000
To: MSR2000@yahoogroups.com
Date: Tuesday, September 20, 2011, 8:16 PM

Anyone know if Motorola ever made a PL module that plugged into the MSR control chassis that did not use Vibrasponders? Something along the lines of what they had for the Mitrek mobiles.

73, Eric KH6CQ

211. Re: [MSR2000] Reedless PL for MSR 2000

Yahoo group: MSR2000
Date: 2011-09-21 03:32:20 UTC
From: Rick KC0HH
Topic: 208 Message: 211

Here is the link to a photo of the Duplex DPL board on Repeater Builder. Mike Morris probably has one in a box somewhere....

http://www.repeater-builder.com/msr2000/pix/msr2000-dpl-board.jpg

73' Rick KC0HH
Lamar, Colorado

--- On Tue, 9/20/11, ejgrabowski <ejgrabowski@...> wrote:

From: ejgrabowski <ejgrabowski@...>
Subject: [MSR2000] Reedless PL for MSR 2000
To: MSR2000@yahoogroups.com
Date: Tuesday, September 20, 2011, 8:16 PM

Anyone know if Motorola ever made a PL module that plugged into the MSR control chassis that did not use Vibrasponders? Something along the lines of what they had for the Mitrek mobiles.

73, Eric KH6CQ

212. Re: [MSR2000] Reedless PL for MSR 2000

Yahoo group: MSR2000
Date: 2011-09-21 07:27:43 UTC
From: Mike Morris
Topic: 208 Message: 212

DPL - Digital PL - is not tone PL. It's a 21-bit data stream with 9
programmable bits, and only some of the bit patterns are usable.

The gentleman is looking for a MSR tone PL board that doesn't
use reeds. I don't think Moto made one. I don't know of any
aftermarket vendor that did either.

In your shoes, I'd just use the reed board and ask around for the
tone frequencies you need. If Ted at MDM doesn't have the reeds,
then post on the yahoogroup with over 5200 members someone
here will have them.

If you absolutely have to use a reedless board (please let us know
why?), then take a old timeout timer card, strip it, mount a piece
of perfboard on some low standoffs and put a TS-64 on it. Wire
the pins to match the PL board and slot pinout (it might take a few
interfacing parts, that's what the perfboard is for), and plug it in.
It's not rocket science, the TS-64 does all the hard work, all you
have to do is match audio and logic levels.

And no, I don't have Felix The Cats bag for a junk box (where the
inside is bigger than the outside) - it would be really handy if it existed.
When I lost my house in the mortgage mess I had to condense a 3
bedroom house, a 2-car garage full of high quality stuff, and a 10x20
workshop down to a single 9x12 bedroom in a double wide mobile
home.
One of the bedrooms in the old house was the office, the dining room
was the computer room - with 5 computers, including an IMSAI Z80
system with a 4mb RAM drive that I did repeater controller development
on, and a garage that was the warehouse and a workshop behind that
which was the radio workbench. All gone.

Mike

At 08:32 PM 09/20/11, you wrote:

>Here is the link to a photo of the Duplex DPL board on Repeater Builder.
>Mike Morris probably has one in a box somewhere....
>
> http://www.repeater-builder.com/msr2000/pix/msr2000-dpl-board.jpg
>
>73' Rick KC0HH
>Lamar, Colorado
>
>--- On Tue, 9/20/11, ejgrabowski <ejgrabowski@...> wrote:
>
>From: ejgrabowski <ejgrabowski@...>

>Subject: [MSR2000] Reedless PL for MSR 2000
>To: MSR2000@yahoogroups.com
>Date: Tuesday, September 20, 2011, 8:16 PM
>
>
>
>Anyone know if Motorola ever made a PL module
>that plugged into the MSR control chassis that
>did not use Vibrasponders? Something along the
>lines of what they had for the Mitrek mobiles.
>73, Eric KH6CQ
>
>
>
>No virus found in this incoming message.
>Checked by AVG - www.avg.com
>Version: 9.0.914 / Virus Database: 271.1.1/3909
>- Release Date: 09/20/11 11:34:00

213. Re: [MSR2000] Reedless PL for MSR 2000

Yahoo group: MSR2000
Date: 2011-09-21 12:41:09 UTC
From: Rick KC0HH
Topic: 208 Message: 213

Hello,

It was late.... The half duplex DPL board is missing one set of chips. A few years ago I remember reading about taking this simplex board and removing the existing chipset and replacing both with the CTCSS chipset from Mitrek mobile PL boards to use the inline modules. I don't remember the author though.

73' Rick KC0HH
Lamar, Colorado

--- On Wed, 9/21/11, Mike Morris <wa6ilq1@...> wrote:

From: Mike Morris <wa6ilq1@...>
Subject: Re: [MSR2000] Reedless PL for MSR 2000
To: MSR2000@yahoogroups.com
Date: Wednesday, September 21, 2011, 1:27 AM

DPL - Digital PL - is not tone PL. It's a 21-bit data
stream with 9

programmable bits, and only some of the bit patterns are usable.

The gentleman is looking for a MSR tone PL board that doesn't

use reeds. I don't think Moto made one. I don't know of any

aftermarket vendor that did either.

In your shoes, I'd just use the reed board and ask around for the

tone frequencies you need. If Ted at MDM doesn't have the reeds,

then post on the yahoogroup with over 5200 members someone

here will have them.

If you absolutely have to use a reedless board (please let us know

why?), then take a old timeout timer card, strip it, mount a piece

of perfboard on some low standoffs and put a TS-64 on it. Wire

the pins to match the PL board and slot pinout (it might take a few

interfacing parts, that's what the perfboard is for), and plug it
in.

It's not rocket science, the TS-64 does all the hard work, all you

have to do is match audio and logic levels.

And no, I don't have Felix The Cats bag for a junk box (where the

inside is bigger than the outside) - it would be really handy if it existed.

When I lost my house in the mortgage mess I had to condense a 3

bedroom house, a 2-car garage full of high quality stuff, and a 10x20

workshop down to a single 9x12 bedroom in a double wide mobile

home.

One of the bedrooms in the old house was the office, the dining room

was the computer room - with 5 computers, including an IMSAI Z80

system with a 4mb RAM drive that I did repeater controller development

on, and a garage that was the warehouse and a workshop behind that

which was the radio workbench. All gone.

Mike

At 08:32 PM 09/20/11, you wrote:

Here is the link to a photo of
the Duplex DPL board on Repeater Builder.

Mike Morris probably has one in a box somewhere....

http://www.repeater-builder.com/msr2000/pix/msr2000-dpl-board.jpg

73' Rick KC0HH

Lamar, Colorado

--- On Tue, 9/20/11, ejgrabowski
<ejgrabowski@...> wrote:

From: ejgrabowski <ejgrabowski@...>

Subject: [MSR2000] Reedless PL for MSR 2000

To: MSR2000@yahoogroups.com

Date: Tuesday, September 20, 2011, 8:16 PM

Anyone know if Motorola ever made a PL module that plugged into the
MSR control chassis that did not use Vibrasponders? Something along the
lines of what they had for the Mitrek mobiles.

73, Eric KH6CQ

No virus found in this incoming message.

Checked by AVG -
www.avg.com

Version: 9.0.914 / Virus Database: 271.1.1/3909 - Release Date: 09/20/11
11:34:00

214. Re: [MSR2000] Reedless PL for MSR 2000

Yahoo group: MSR2000
Date: 2011-09-22 08:44:36 UTC
From: Mike Morris
Topic: 208 Message: 214

You are mis-remembering...
The writeup was from Skipp in a posting on this yahoogroup... detailing
how to convert a simplex PL board to duplex.
He has converted several by taking the chip, reed socket and some
other parts off of a Mitrek mobile HLN4020 PL board - which uses reeds.
He then stuffs the empty locations on the simplex PL board.

However there is an easier way to solve your PL problem...
there is a TRN5073 duplex PL board on ebay right now...
<http://www.ebay.com/itm/Motorola-TRN5073APR-PL-Card-Out-MSR-2000-/330616778626?pt=2_Way_Radios_FRS&hash=item4cfa4baf82>
At the time I'm writing this it's under $13 with 40 hours left and
even comes with a pair of reeds.

The gentleman that has a second one with a buy-it-now for $400 is crazy.

If you get beat on that ebay auction you can still take the timeout
timer card (there is also one of them on ebay) and the TS64 as
I mentioned in the earlier email and make your own card...
and it will be more flexible since it sets the tone frequency with a
DIP switch.

Mike WA6ILQ

At 05:41 AM 09/21/11, you wrote:

>Hello,
>
> It was late.... The half duplex DPL board is missing one set of
> chips. A few years ago I remember reading about taking this simplex
> board and removing the existing chipset and replacing both with the
> CTCSS chipset from Mitrek mobile PL boards to use the inline
> modules. I don't remember the author though.
>
>73' Rick KC0HH
>Lamar, Colorado
>
>--- On Wed, 9/21/11, Mike Morris <wa6ilq1@...> wrote:
>
>From: Mike Morris <wa6ilq1@...>
>Subject: Re: [MSR2000] Reedless PL for MSR 2000
>To: MSR2000@yahoogroups.com
>Date: Wednesday, September 21, 2011, 1:27 AM
>
>DPL - Digital PL - is not tone PL. It's a 21-bit data stream with 9
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>then post on the yahoogroup with over 5200 members someone
>here will have them.
>
>If you absolutely have to use a reedless board (please let us know
>why?), then take a old timeout timer card, strip it, mount a piece
>of perfboard on some low standoffs and put a TS-64 on it. Wire
>the pins to match the PL board and slot pinout (it might take a few
>interfacing parts, that's what the perfboard is for), and plug it in.
>It's not rocket science, the TS-64 does all the hard work, all you
>have to do is match audio and logic levels.
>
>And no, I don't have Felix The Cats bag for a junk box (where the
>inside is bigger than the outside) - it would be really handy if it existed.
>When I lost my house in the mortgage mess I had to condense a 3
>bedroom house, a 2-car garage full of high quality stuff, and a 10x20
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>home.
>One of the bedrooms in the old house was the office, the dining room
>was the computer room - with 5 computers, including an IMSAI Z80
>system with a 4mb RAM drive that I did repeater controller development
>on, and a garage that was the warehouse and a workshop behind that
>which was the radio workbench. All gone.
>
>Mike
>
>At 08:32 PM 09/20/11, you wrote:
>
>>Here is the link to a photo of the Duplex DPL board on Repeater Builder.
>>Mike Morris probably has one in a box somewhere....
>>
>> http://www.repeater-builder.com/msr2000/pix/msr2000-dpl-board.jpg
>>
>>73' Rick KC0HH
>>Lamar, Colorado
>>
>>--- On Tue, 9/20/11, ejgrabowski <ejgrabowski@...> wrote:
>From: ejgrabowski <ejgrabowski@...>
>Subject: [MSR2000] Reedless PL for MSR 2000
>To: MSR2000@yahoogroups.com
>Date: Tuesday, September 20, 2011, 8:16 PM
>Anyone know if Motorola ever made a PL module that plugged into the
>MSR control chassis that did not use Vibrasponders? Something along
>the lines of what they had for the Mitrek mobiles.

>73, Eric KH6CQ

215. Re: [MSR2000] Reedless PL for MSR 2000

Yahoo group: MSR2000
Date: 2011-09-22 10:20:17 UTC
From: Eric Grabowski
Topic: 208 Message: 215

Guys, thanks for the comments. I have a working duplex PL card but just wondered if Motorola ever made a reedless version.

I agree that a third party CTCSS product could be used as suggested with only a little bit of work. As I see it, the advantage of doing this wold be to have the flexibility to change PL freqs with the flip of a few DIP switches rather than using reeds. This method is certainly viable and I may go this route in the future.

Mike, my heart goes out to you. I have an attached double garage which has never been visited by a vehicle since I bought this house many moons ago. My bench is in the middle and it'is surrounded with stuff, mostly Motorola 2-way stuff, but also PCs and various high-tech discards dropped off by friends. Folks around here refer to it as the Grabowski Garage --- A place where cool projects, made from discards of yesteryear, continually emerge to the amazement of one and all. I don't disagree; I just smile.

73 and aloha, Eric KH6CQ

--- On Wed, 9/21/11, Mike Morris <wa6ilq1@...> wrote:

From: Mike Morris <wa6ilq1@...>
Subject: Re: [MSR2000] Reedless PL for MSR 2000
To: MSR2000@yahoogroups.com
Date: Wednesday, September 21, 2011, 10:44 PM

You are mis-remembering...

The writeup was from Skipp in a posting on this yahoogroup...
detailing

how to convert a simplex PL board to duplex.

He has converted several by taking the chip, reed socket and some

other parts off of a Mitrek mobile HLN4020 PL board - which uses
reeds.

He then stuffs the empty locations on the simplex PL board.

However there is an easier way to solve your PL problem...

there is a TRN5073 duplex PL board on ebay right now...

<
http://www.ebay.com/itm/Motorola-TRN5073APR-PL-Card-Out-MSR-2000-/330616778626?pt=2_Way_Radios_FRS&hash=item4cfa4baf82
>

At the time I'm writing this it's under $13 with 40 hours left and

even comes with a pair of reeds.

The gentleman that has a second one with a buy-it-now for $400 is
crazy.

If you get beat on that ebay auction you can still take the timeout

timer card (there is also one of them on ebay) and the TS64 as

I mentioned in the earlier email and make your own card...

and it will be more flexible since it sets the tone frequency with a

DIP switch.

Mike WA6ILQ

At 05:41 AM 09/21/11, you wrote:

Hello,

It was late.... The half duplex DPL board is missing one set
of chips. A few years ago I remember reading about taking this simplex
board and removing the existing chipset and replacing both with the CTCSS
chipset from Mitrek mobile PL boards to use the inline modules. I
don't remember the author though.

73' Rick KC0HH

Lamar, Colorado

--- On Wed, 9/21/11, Mike Morris
<wa6ilq1@...> wrote:

From: Mike Morris <wa6ilq1@...>

Subject: Re: [MSR2000] Reedless PL for MSR 2000

To: MSR2000@yahoogroups.com

Date: Wednesday, September 21, 2011, 1:27 AM

DPL - Digital PL - is not tone PL. It's a 21-bit data stream
with 9

programmable bits, and only some of the bit patterns are
usable.

The gentleman is looking for a MSR tone PL board that doesn't

use reeds. I don't think Moto made one. I don't know of
any

aftermarket vendor that did either.

In your shoes, I'd just use the reed board and ask around for the

tone frequencies you need. If Ted at MDM doesn't have the reeds,

then post on the yahoogroup with over 5200 members someone

here will have them.

If you absolutely have to use a reedless board (please let us know

why?), then take a old timeout timer card, strip it, mount a piece

of perfboard on some low standoffs and put a TS-64 on it. Wire

the pins to match the PL board and slot pinout (it might take a few

interfacing parts, that's what the perfboard is for), and plug it
in.

It's not rocket science, the TS-64 does all the hard work, all you

have to do is match audio and logic levels.

And no, I don't have Felix The Cats bag for a junk box (where the

inside is bigger than the outside) - it would be really handy if it
existed.

When I lost my house in the mortgage mess I had to condense a 3

bedroom house, a 2-car garage full of high quality stuff, and a 10x20

workshop down to a single 9x12 bedroom in a double wide mobile

home.

One of the bedrooms in the old house was the office, the dining room

was the computer room - with 5 computers, including an IMSAI Z80

system with a 4mb RAM drive that I did repeater controller
development

on, and a garage that was the warehouse and a workshop behind that

which was the radio workbench. All gone.

Mike

At 08:32 PM 09/20/11, you wrote:

Here is the link to a photo of the Duplex DPL board on Repeater
Builder.

Mike Morris probably has one in a box somewhere....

http://www.repeater-builder.com/msr2000/pix/msr2000-dpl-board.jpg

73' Rick KC0HH

Lamar, Colorado

--- On Tue, 9/20/11, ejgrabowski
<ejgrabowski@...> wrote:

From: ejgrabowski <ejgrabowski@...>
Subject: [MSR2000] Reedless PL for MSR 2000
To: MSR2000@yahoogroups.com
Date: Tuesday, September 20, 2011, 8:16 PM

Anyone know if Motorola ever made a PL module that plugged into the
MSR control chassis that did not use Vibrasponders? Something along the
lines of what they had for the Mitrek mobiles.
73, Eric KH6CQ

216. MSR-2000 ham conversations

Yahoo group: MSR2000
Date: 2011-09-24 17:00:28 UTC
From: Kent Johnson
Topic: 216 Message: 216

I intend to use a Comspec TS63ds for CTCSS and a Linker II controller in my conversion of VHF MSR-2000 to ham use. Any comments?

Which models of theMSR-2000 will convert for ham UHF use in the 442-448 MHz range?

Kent W7AOR

www.narri.org

217. Need UHF Duplexer Specs

Yahoo group: MSR2000
Date: 2011-10-06 10:28:21 UTC
From: ejgrabowski
Topic: 217 Message: 217

I downloaded the UHF MSR 2000 manual from the R-B website that covers the UHF duplexers but Table 2 which lists the performance specifications for the 4 can duplexers is unreadable. Does anyone have this information? The nomenclature is TLE2363 (T4085) and TLE2383 (T5002).

73 Eric KH6CQ

218. tuning tool

Yahoo group: MSR2000
Date: 2011-11-15 15:39:11 UTC
From: Ron Wright, N9EE
Topic: 218 Message: 218

hi all,

In PHOTOS in folder MSR2000 PHOTOS is picture of the Motorola tuning tool common for MSR2000 and other Motorola radios. Info for ordering is also there. Price of $6 was as of 10/23/2009 so old.

73, ron, n9ee/r

219. Looking for Vibrasponders

Yahoo group: MSR2000
Date: 2011-11-29 08:33:35 UTC
From: ejgrabowski
Topic: 219 Message: 219

I need 2 KLN6209A Vibrasponders for 77.0 Hz (XB) and 1 for 88.5 Hz (YB).
My usual sources including MDM radio do not have any available.
Thanks in advance. 73 and aloha, Eric KH6CQ

220. Getting RF power out of an exciter?

Yahoo group: MSR2000
Date: 2011-12-01 08:45:54 UTC
From: iandetom
Topic: 220 Message: 220

When working on an MSR-2000 backplane on the bench with no final amplifier connected, how can I get the exciter to put out the half to one watt of RF it is capable of producing? I know the exciter gets a signal from the final but haven't figured out how to duplicate that signal. Thanks.
Tom N8CT

221. RE: [MSR2000] Getting RF power out of an exciter?

Yahoo group: MSR2000
Date: 2011-12-01 10:30:37 UTC
From: Ron Wright
Topic: 220 Message: 221

Tom,
The sig from the PA to the exciter is a DC voltage that powers and regulates the exciter final. This is how power output of the PA is controlled by controlling the power output of this exciter final amp.
You will need to find this pin on the exciter and apply a DC voltage. I've measured about 7VDC for my power setting. It is power for the exciter PA drawing some current so a pot will not work unnless it is low resistance.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@tampabay.rr.com

To: MSR2000@yahoogroups.com
From: iandetom@...
Date: Thu, 1 Dec 2011 08:45:54 +0000
Subject: [MSR2000] Getting RF power out of an exciter?

When working on an MSR-2000 backplane on the bench with no final amplifier connected, how can I get the exciter to put out the half to one watt of RF it is capable of producing? I know the exciter gets a signal from the final but haven't figured out how to duplicate that signal. Thanks.

Tom N8CT

222. Re: Getting RF power out of an exciter?

Yahoo group: MSR2000
Date: 2011-12-01 15:11:49 UTC
From: Rick
Topic: 220 Message: 222

Hi Tom,

Pin 16 on the backplane is where the exciter voltage is routed. I use a Micor PA on my MSR2000, which does not have the exciter supply voltage circuit on it. I mounted a 7805 voltage regulator on the backplane with the input to the switched 9.4vdc on pin 14 and the output 5vdc to pin 16 for control voltage. I used a 3dB in-line attenuator on the input to the TLD1692. The Micor PA works fine with the 500mW drive. There is a photo of the 7805 under Photos section

Rick KC0HH

--- In MSR2000@yahoogroups.com, "iandetom" <iandetom@...> wrote:
>
> When working on an MSR-2000 backplane on the bench with no final amplifier connected, how can I get the exciter to put out the half to one watt of RF it is capable of producing? I know the exciter gets a signal from the final but haven't figured out how to duplicate that signal. Thanks.
> Tom N8CT
>

223. P/Supply Regulator

Yahoo group: MSR2000
Date: 2011-12-01 16:40:56 UTC
From: Roscoe
Topic: 223 Message: 223

Greetings
I am the newest to the group and want to say hello to all! I am looking for a TRN5119A regulator board for my MSR2000 power supply. Long story but the one I have is unrepairable due to a group of mice deciding to make the power supply a hotel and move in without registering with the desk clerk. Any assistance or direction will greatly be appreciated.

All the best,

Ralph Malewski
K8KXA
Vermilion, Ohio

224. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2011-12-04 19:03:21 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 224

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /DUPLEXERS/DuplexerCableLength.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : Cable lengths for Duplexers

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/DUPLEXERS/DuplexerCableLength.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

225. CompaStation Cabinets - All the Same?

Yahoo group: MSR2000
Date: 2011-12-06 05:15:20 UTC
From: ejgrabowski
Topic: 225 Message: 225

I have a 37-inch tall MSR 2000 CompaStation style cabinet. About half way up from the bottom it has panels welded onto the side rails to support the ac power supply.

Do the MSF 5000 cabinets have similar panels welded into them?
How about the Micor cabinets?

I'd like to find a cabinet without these panels.

73 and aloha, Eric KH6CQ

226. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2011-12-10 12:53:53 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 226

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /Grounding of Radio Equipment.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : Grounding for lightning in a radio system.

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/Grounding%20of%20Radio%20Equipment.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

227. MSR-2000 in Amateur Repeater Service Failure

Yahoo group: MSR2000
Date: 2011-12-14 02:27:15 UTC
From: iandetom
Topic: 227 Message: 227

Our club has been using a MSR-2000 for a repeater for about 5 years now and we just had our first major failure. The transmitter locked in transmit mode and we could not knock it down via touch tones or telephone commands. One of our club members lives close by so he was able to gain access to the repeater and unplugged the power cord. I am the trustee / maintainer of the beast so here is what I found after I brought it home to work on. I could plug a microphone into it and it would transmit my audio. The receiver acted dead but when I installed it in my testing back plane, it worked fine. I tried plugging in a speaker on the back plane after reinstalling the receiver, but there was no audio from the receiver like there normally is. I took voltage readings from the power plug on my test back plane and compared them to the broken repeater and all voltages were normal so this eliminated the power supply. I pulled the CAT-300DX controller out and put it on my test bench. I connected a speaker to test point 2 on the CAT and powered it up, there was no sign on audio and the controller acted dead. I did a hard reset to the controller by operating switch 7 and it came back to life. I reinstalled the controller and powered up the repeater and it came on in transmit mode and was broadcasting nothing but white noise like an open squelch but it would repeat my HT signal but there was no squelch control and we do use the PL card. I had a spare R-1 audio card so I modified it for repeater service and put it in and it worked. The CAT controller is working but it has lost it's voice. I suspect what ever happened to the R-1 card glitched the controller. I have not tested the R-1 card in my test back plane yet but will do that next time I am working on it. We have a spare MSR-2000 with a CAT 300 controller so that is now on the air which gives me time to work on the one that failed.

A question I have but have not researched yet, I have a Motorola time out card and when I put it in, it will time out and shut the transmitter down when I use the transmit switch on the R-1 card, but when the CAT controller keys up the transmitter, it will not time out and shut the transmitter down. I must be using the wrong point on the back plane to key the transmitter from the controller??? Anyone know where I should be keying the transmitter where the Motorola time out card will be in control no matter what the CAT controller does?

Thanks for reading this and any suggestions or ideas will be much appreciated.

Tom N8CT

228. Re: [MSR2000] MSR-2000 in Amateur Repeater Service Failure

Yahoo group: MSR2000
Date: 2011-12-14 03:38:48 UTC
From: william474@aol.com
Topic: 227 Message: 228

Head over to the repeater-builder.com site and peruse the MSR2000 section. Read the excellent article by "Skip" on converting an MSR2000 to ham use and interfacing to an external controller. This conversion retains the Squelch gate card (and several others). The controller applies PTT to pin 18 of the squelch gate card (be sure JU12 is removed). The Internal time out card comes after the Squelch gate card and accumulates TX on time to determine when to time out. It is possible that the time out card will time out the repeater under normal use.

The rest of the controller signals are obtained from the Squelch Gate card. The COR is connected to the collector of Q17, the PL sense is connected to the collector of Q9. The receive audio to the controller is taken from the junction of C17 and R74 at the R74 end (break the connection between R74 and C17) The controller TX audio is injected at C17.

All of this is described in the article. I like this conversion because a jumper plug can be inserted into the Squelch gate card and the repeater is returned to original use (all be it without an ID'er) so you can work on the controller if necessary. I have 7 MSR2000 repeaters here that have been converted using this method.

How/where was the CAT controller powered? The 9.6 volt supply can be overloaded pretty easy. And the unregulated PA voltage can get above 16 volts. I added an LM317 based regulator to the PA supply to obtain 12 volts to power the controller, and the control receiver.

If you have any questions I would be glad to help.

Bill - WA0CBW
ARRL Technical Coordinator - Kansas Section

In a message dated 12/13/2011 8:27:20 P.M. Central Standard Time, iandetom@... writes:

Our club has been using a MSR-2000 for a repeater for about 5 years now and we just had our first major failure. The transmitter locked in transmit mode and we could not knock it down via touch tones or telephone commands. One of our club members lives close by so he was able to gain access to the repeater and unplugged the power cord. I am the trustee / maintainer of the beast so here is what I found after I brought it home to work on. I could plug a microphone into it and it would transmit my audio. The receiver acted dead but when I installed it in my testing back plane, it worked fine. I tried plugging in a speaker on the back plane after reinstalling the receiver, but there was no audio from the receiver like there normally is. I took voltage readings from the power plug on my test back plane and compared them to the broken repeater and all voltages were normal so this eliminated the power supply. I pulled the CAT-300DX controller out and put it on my

test bench. I conne
cted a speaker to test point 2 on the CAT and powered it up, there was no sign on audio and the controller acted dead. I did a hard reset to the controller by operating switch 7 and it came back to life. I reinstalled the controller and powered up the repeater and it came on in transmit mode and was broadcasting nothing but white noise like an open squelch but it would repeat my HT signal but there was no squelch control and we do use the PL card. I had a spare R-1 audio card so I modified it for repeater service and put it in and it worked. The CAT controller is working but it has lost it's voice. I suspect what ever happened to the R-1 card glitched the controller. I have not tested the R-1 card in my test back plane yet but will do that next time I am working on it. We have a spare MSR-2000 with a CAT 300 controller so that is now on the air which gives me time to work on the one that failed.

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Thanks for reading this and any suggestions or ideas will be much appreciated.

Tom N8CT

Yahoo! Groups Links

229. RE: [MSR2000] MSR-2000 in Amateur Repeater Service Failure

Yahoo group: MSR2000
Date: 2011-12-14 13:19:59 UTC
From: Ron Wright
Topic: 227 Message: 229

Tom,
It sounds as if the CAT got its mind scrambled and is why you had the problem. Restoring it to factory probably restored its function and erased all including the voice messages. The messages may still be there, but need to re-enabled or turned on. I'm not that familar with the CAT, only seen couple, so cannot give much info on it, but since you reset it and things work then the controller is at least working in repeater mode.
On the PTT try the Local PTT on the R1 card, pin 4. It is same as the PTT from mike. Other PTTs might not work with other cards like the timeout timer.
I also use the time-out timer card, but set for like 8 minutes, longer than the controller. This way if the controller gets zapped or malfunctions the timeout card will shut down the repeater. I believe the timeout card resets on PTT dropping, not COS. That is the PTT from whatever is keying the repeater has to go away to reset, not just the timeout card dropping the transmit so it will not reset itself.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: iandetom@...
Date: Wed, 14 Dec 2011 02:27:15 +0000
Subject: [MSR2000] MSR-2000 in Amateur Repeater Service Failure

Our club has been using a MSR-2000 for a repeater for about 5 years now and we just had our first major failure. The transmitter locked in transmit mode and we could not knock it down via touch tones or telephone commands. One of our club members lives close by so he was able to gain access to the repeater and unplugged the power cord. I am the trustee / maintainer of the beast so here is what I found after I brought it home to work on. I could plug a microphone into it and it would transmit my audio. The receiver acted dead but when I installed it in my testing back plane, it worked fine. I tried plugging in a speaker on the back plane after reinstalling the receiver, but there was no audio from the receiver like there normally is. I took voltage readings from the power plug on my test back plane and compared them to the broken repeater and all voltages were normal so this eliminated the power supply. I pulled the CAT-300DX controller out and put it on my test bench. I connected a speaker to test point 2 on the CAT and powered it up, there was no sign on audio and the controller acted dead. I did a hard reset to the controller by operating switch 7 and it came back to life. I reinstalled the controller and powered up the repeater and it came on in transmit mode and was broadcasting nothing but white noise like an open squelch but it would repeat my HT signal but there was no squelch control and we do use the PL card. I had a spare R-1 audio card so I modified it for repeater service and put it in and it worked. The CAT controller is working but it has lost it's voice. I suspect what ever happened to the R-1 card glitched the controller. I have not tested the R-1 card in my test back plane yet but will do that next time I am working on it. We have a spare MSR-2000 with a CAT 300 controller so that is now on the air which gives me time to work on the one that failed.

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Thanks for reading this and any suggestions or ideas will be much appreciated.

Tom N8CT

230. RE: [MSR2000] MSR-2000 in Amateur Repeater Service Failure

Yahoo group: MSR2000
Date: 2011-12-14 16:10:03 UTC
From: Howard
Topic: 227 Message: 230

I have had the CAT300DXL get scrambled due to line voltage drop-outs. Try putting a UPS to the repeater or just to a power supply just for the CAT. This cured my problem. Hopefully it will cure yours.

Howard K2IMO

231. uhf msr2000

Yahoo group: MSR2000
Date: 2012-03-18 14:46:38 UTC
From: wb0shn
Topic: 231 Message: 231

Looking for a very cheap or free UHF MSR2000. I'm in southeast Kansas. I do have a spare chassis and UHF PA, so if I'm thinking right, all I really need is the Exciter and receiver modules (and channel elements). Any leads would be appreciated.

73 - Dan

232. continuous duty final failure

Yahoo group: MSR2000
Date: 2012-03-23 16:51:29 UTC
From: iandetom
Topic: 232 Message: 232

What are the most common reasons for a 100 watt continuous duty final to fail? I have two finals with zero output but when using test meter plugged into the final's test points shows normal readings? These are vhf high band units used for 2 meter amateur repeater service set for 50 watts output.

Thanks,
Tom

233. Re: [MSR2000] continuous duty final failure

Yahoo group: MSR2000
Date: 2012-03-23 18:31:09 UTC
From: va3dwi@gmail.com
Topic: 232 Message: 233

VHF high band meaning 150-174 MHz? Tuning up should be done with a Watt meter AND an Amp meter in the 12 Volt line that feeds the amplifier. Tuning with a Watt meter only for maximum power could still draw too much current even when set for 50 Watts only.

That is the more common reason for failure. I am not saying that is your reason. Was it a simplex radio converted to a repeater with the antenna relay left in? It could a bad relay as they are reed relays and they're known to fail.
73 tony VE3DWI.
Sent wirelessly from my BlackBerry

-----Original Message-----
From: "iandetom" <iandetom@yahoo.com>
Sender: MSR2000@yahoogroups.com
Date: Fri, 23 Mar 2012 16:51:29
To: <MSR2000@yahoogroups.com>
Reply-To: MSR2000@yahoogroups.com
Subject: [MSR2000] continuous duty final failure

What are the most common reasons for a 100 watt continuous duty final to fail? I have two finals with zero output but when using test meter plugged into the final's test points shows normal readings? These are vhf high band units used for 2 meter amateur repeater service set for 50 watts output.

Thanks,
Tom

234. MSR 2000 on 2 Meters

Yahoo group: MSR2000
Date: 2012-03-24 05:17:27 UTC
From: kc2tgd
Topic: 234 Message: 234

Hi,

I just acquired two MSR2000's, one is a C73KSB-3195B, the other is a C73GSB-3106B for the Clemson University Amateur Radio Club.

Both units have TLD9232 exciters and TRD6172 receivers. The KSB has a TLD2602 PA.

The control shelf from the KSB unit is damaged, and I would like to take the shelf from the GSB to have a continuous duty station on 2 meters.

The exciter and receiver are only rated down to 146MHz, and the PA is only rated to 150MHz. I am wondering if I will be able to get this setup down to 145.45 TX and 144.85 RX?

Thanks,
Eddie KC2TGD

235. RE: [MSR2000] MSR 2000 on 2 Meters

Yahoo group: MSR2000
Date: 2012-03-24 21:21:34 UTC
From: Ron Wright
Topic: 234 Message: 235

Eddie,
Yes the 146 will tune nicely down to 145, both rcv and xmt. The PA might only put out 90W for it is for 150 and above, but still will work on Ham Band.
I do recommend you send the channel elements to ICM crystal or other good xtal manuf and let them put the correct xtal in the ch ele and compensate and adjust for your freq. It is worth the money and effort. DO NOT USE JAN CRYSTALS.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: eddie@...
Date: Sat, 24 Mar 2012 05:17:27 +0000
Subject: [MSR2000] MSR 2000 on 2 Meters

Hi,

I just acquired two MSR2000's, one is a C73KSB-3195B, the other is a C73GSB-3106B for the Clemson University Amateur Radio Club.

Both units have TLD9232 exciters and TRD6172 receivers. The KSB has a TLD2602 PA.

The control shelf from the KSB unit is damaged, and I would like to take the shelf from the GSB to have a continuous duty station on 2 meters.

The exciter and receiver are only rated down to 146MHz, and the PA is only rated to 150MHz. I am wondering if I will be able to get this setup down to 145.45 TX and 144.85 RX?

Thanks,

Eddie KC2TGD

236. Re: continuous duty final failure

Yahoo group: MSR2000
Date: 2012-03-25 03:03:22 UTC
From: iandetom
Topic: 232 Message: 236

Hi Tony, thanks for the reply. This was a base station converted over for repeater service. The relay was removed and a second antenna connector was added. When I have tuned these things up, I have followed the alignment instructions from the manual and I use the Motorola test meter plugged into the ports as required plus monitor the power out with a watt meter. Both of the finals I have were working great for this repeater. This repeater gets a lot of use. It is common for the guys to start yacking around 7 pm and stay on it until around midnight. I have felt the heat sink many times when the repeater has been used for a while and it never feels too hot. That huge heat sink does it's job well. I have not had time to take the covers off the latest failed amp but plan on doing that soon. If I find anything, I'll post it here.
Thanks,
Tom N8CT

>
> What are the most common reasons for a 100 watt continuous duty final to fail? I have two finals with zero output but when using test meter plugged into the final's test points shows normal readings? These are vhf high band units used for 2 meter amateur repeater service set for 50 watts output.
>
> Thanks,
> Tom
>

237. MSR 2000 Receiver Alignment

Yahoo group: MSR2000
Date: 2012-04-27 07:39:20 UTC
From: kc2tgd
Topic: 237 Message: 237

I got new crystals from ICM and installed them into elements myself. The transmit element tuned right up, but I can not get the receive element to go on frequency using the "alternate" method of setting the receiver frequency described in the MSR service manual. I have played with all the inductors in the channel element and I can not get it onto frequency. The closest I have been able to get the frequency counter to read was 134.15060 (600Hz off) and the slug is falling out, but it should be at 134.15000 for a RX frequency of 144.85.

Could this be a bad element or crystal or do I have to do something special to get the TRD6302 down this low?

Thanks and 73, Eddie KC2TGD

238. RE: [MSR2000] MSR 2000 Receiver Alignment

Yahoo group: MSR2000
Date: 2012-04-27 11:22:20 UTC
From: Ron Wright
Topic: 237 Message: 238

Eddie,
I have found the MSR2000 elements are tricky. I had same problem with both tx and rx ele which I could not get closer than 2 kHz on each. I then sent to ICM and let them do their thing and when I got them back they were perfect. I believe the Mot ele are so tight in there design proper changes must be made when installing crystals and ICM knows what to do. It would not be a rcvr problem. The ch ele has the osc inside and the freq is determined there.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: eddie@...
Date: Fri, 27 Apr 2012 07:39:20 +0000
Subject: [MSR2000] MSR 2000 Receiver Alignment

I got new crystals from ICM and installed them into elements myself. The transmit element tuned right up, but I can not get the receive element to go on frequency using the "alternate" method of setting the receiver frequency described in the MSR service manual. I have played with all the inductors in the channel element and I can not get it onto frequency. The closest I have been able to get the frequency counter to read was 134.15060 (600Hz off) and the slug is falling out, but it should be at 134.15000 for a RX frequency of 144.85.

Could this be a bad element or crystal or do I have to do something special to get the TRD6302 down this low?

Thanks and 73, Eddie KC2TGD

239. Re: MSR 2000 Receiver Alignment

Yahoo group: MSR2000
Date: 2012-04-27 19:13:35 UTC
From: kc2tgd
Topic: 237 Message: 239

Turns out it was just the element. Used an element that was originally down at 140MHz and it tuned right up.

73, KC2TGD

--- In MSR2000@yahoogroups.com, Ron Wright <mccrpt@...> wrote:
>
>
> Eddie,
> I have found the MSR2000 elements are tricky. I had same problem with both tx and rx ele which I could not get closer than 2 kHz on each. I then sent to ICM and let them do their thing and when I got them back they were perfect. I believe the Mot ele are so tight in there design proper changes must be made when installing crystals and ICM knows what to do.
> It would not be a rcvr problem. The ch ele has the osc inside and the freq is determined there.
>
> 73, ron, n9ee/r
> Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...
>
> To: MSR2000@yahoogroups.com
> From: eddie@...
> Date: Fri, 27 Apr 2012 07:39:20 +0000
> Subject: [MSR2000] MSR 2000 Receiver Alignment
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>
>
>
> Could this be a bad element or crystal or do I have to do something special to get the TRD6302 down this low?
>
>
>
> Thanks and 73, Eddie KC2TGD
>

240. narrow band

Yahoo group: MSR2000
Date: 2012-05-08 14:41:10 UTC
From: Ron Wright, N9EE
Topic: 240 Message: 240

this does NOT affect Ham Radio:

Land mobile radio systems operating in the VHF and UHF radio bands must begin operating with 12.5 kHz efficiency technology by January 1, 2013. Licensees not operating at 12.5 KHz efficiency at that time could be subject to FCC enforcement action, which may include admonishment, monetary fines or loss of license.

The deadline?
January 1, 2013 (<7 months)

Narrow banding means all 16F3 xmsns will go to 12F3 or 2.5 kHz dev instead of the now 5 kHz.

Only segments affected are Part 90 or commercial radio systems and not Ham Radio Part 97.

The commercial world has known about this for over 5 years and have been gearing up for it. Most all radios made after about 2005 have narrow band and will require only reprogramming, resetting the radio for narrow band.

The Florida Repeater Council is proposing 2m be forced to narrow band, but there are flaws in their proposal and also Hams are not going to throw out their rigs to accommodate this. It will happen, but at a much slower pace than what the FRC proposes.

Look for even more MSR2000s and MSF5000s being dumped on the used market...good for us Hams, hi.

73, ron, n9ee/r

241. For sale at Dayton

Yahoo group: MSR2000
Date: 2012-05-11 15:38:06 UTC
From: chappy
Topic: 241 Message: 241

FOR SALE ☐ UHF MSR2000 repeater, #C74GSB-3105BT, crystalled & aligned on 444.925.
Includes the factory duplexer T4084A. Cooling fan installed. Used by a club for many years.
Can deliver at Dayton. $250. <kd4ss@arrl.net>

242. Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-18 11:03:20 UTC
From: Mike
Topic: 242 Message: 242

Greetings all,

I'm new to MSR-2000s, but not new to building repeaters.

I have an MSR-2000 (C73KSB-3106BT) that I am trying to configure for Carrier Squelch using various jumpers on the Backplane (fully optionable), Squelch Gate and R1 Audio card, but regardless of having any combination of the jumpers installed/not installed, I can't get the system to respond in CS.

In some configurations, I lose the ability to quiet the receiver, in others the TX stays up all the time, in others the TX does not respond. Obviously I've managed to miss the correct combination of jumpers... so it's time to call in the big guns.

I have the following cards/modules installed:

PA TLD2602A
Receiver TRD6302APR
Exciter TLD9242APR
Station Control TRN5321APR
Time Out Timer TRN5295APR
Squelch Gate TRN5324APR
Multi PL Decoder TRN5329A3798Z
Multi PL Encoder TRN5292A3498U
PL TRN5073APR
R1 TRN9689

I've tried JU9 on the backplane is in, JU9 on the Station Control card is out, JU4, JU14, and JU15 on the Squelch Gate card are out, and JU102, JU103,JU104, and JU105 on the R1 are out. In this configuration, the transmitter remains keyed all the time.

What did I miss?

73,

Mike
WM4B

243. Re: [MSR2000] Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-20 04:07:15 UTC
From: Tony Lelieveld
Topic: 242 Message: 243

Mike,

Go to this link and you will likely find all the information you need.
http://www.repeater-builder.com/msr2000/msr2000-conversion-k4hal.html

Don't hesitate to start here as you will find more generalized info that may be helpful to you as well. http://www.repeater-builder.com/msr2000/msr2000-index.html

Good luck. Tony VE3DWI / K8DWI
****
----- Original Message -----
From: Mike
To: MSR2000@yahoogroups.com
Sent: Friday, May 18, 2012 7:03 AM
Subject: [MSR2000] Configure MSR-2000 for Carrier Squelch

Greetings all,

I'm new to MSR-2000s, but not new to building repeaters.

I have an MSR-2000 (C73KSB-3106BT) that I am trying to configure for Carrier Squelch using various jumpers on the Backplane (fully optionable), Squelch Gate and R1 Audio card, but regardless of having any combination of the jumpers installed/not installed, I can't get the system to respond in CS.

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I've tried JU9 on the backplane is in, JU9 on the Station Control card is out, JU4, JU14, and JU15 on the Squelch Gate card are out, and JU102, JU103,JU104, and JU105 on the R1 are out. In this configuration, the transmitter remains keyed all the time.

What did I miss?

73,

Mike
WM4B

.

244. RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-20 12:46:48 UTC
From: Mike (WM4B)
Topic: 242 Message: 244

Tony,

That's the mod that I'm using, but I still can't get the stupid thing in CS. Jumpers appear correct. PL mode was good - everything was baselined.

73,

Mike

WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Tony Lelieveld
Sent: Sunday, May 20, 2012 12:07 AM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] Configure MSR-2000 for Carrier Squelch

Mike,

Go to this link and you will likely find all the information you need.
http://www.repeater-builder.com/msr2000/msr2000-conversion-k4hal.html

Don't hesitate to start here as you will find more generalized info that may be helpful to you as well.
http://www.repeater-builder.com/msr2000/msr2000-index.html

Good luck. Tony VE3DWI / K8DWI

****

----- Original Message -----

From: Mike <mailto:mwbesemer@...>

To: MSR2000@yahoogroups.com

Sent: Friday, May 18, 2012 7:03 AM

Subject: [MSR2000] Configure MSR-2000 for Carrier Squelch

Greetings all,

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I've tried JU9 on the backplane is in, JU9 on the Station Control card is out, JU4, JU14, and JU15 on the Squelch Gate card are out, and JU102, JU103,JU104, and JU105 on the R1 are out. In this configuration, the transmitter remains keyed all the time.

What did I miss?

73,

Mike
WM4B

.

<http://geo.yahoo.com/serv?s=97359714/grpId=22176058/grpspId=1705063108/msgId=242/stime=1337339003/nc1=5741395/nc2=5191954/nc3=4025291>

245. RE: Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-20 15:19:12 UTC
From: Brian Gieryk
Topic: 242 Message: 245

Have you tried removing the Multi PL Encode/Decode cards?

Just a thought....

Brian
KE6IYC

246. RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-20 16:18:32 UTC
From: Rick KC0HH
Topic: 242 Message: 246

Hello,

While you had it in "PL" mode, did you try throwing the "PL Disable" switch on the Station Control Card to see if it worked in CS mode ? Also, did you insert JU1 on the R1 Audio Card when you pulled the PL card ? The only cards you need in there are the Station Control Card and R1 Audio Card for CS operation with an external controller.

73' Rick KC0HH
Lamar, Colorado

--- On Sun, 5/20/12, Mike (WM4B) <mwbesemer@...> wrote:

From: Mike (WM4B) <mwbesemer@...>
Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch
To: MSR2000@yahoogroups.com
Date: Sunday, May 20, 2012, 6:46 AM

Tony, That’s the mod that I’m using, but I still can’t get the stupid thing in CS. Jumpers appear correct. PL mode was good – everything was baselined. 73, MikeWM4B From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Tony Lelieveld
Sent: Sunday, May 20, 2012 12:07 AM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] Configure MSR-2000 for Carrier Squelch Mike, Go to this link and you will likely find all the information you need. http://www.repeater-builder.com/msr2000/msr2000-conversion-k4hal.html Don't hesitate to start here as you will find more generalized info that may be helpful to you as well. http://www.repeater-builder.com/msr2000/msr2000-index.html Good luck. Tony VE3DWI / K8DWI**********----- Original Message ----- From: Mike To: MSR2000@yahoogroups.com Sent: Friday, May 18, 2012 7:03 AMSubject: [MSR2000] Configure MSR-2000 for Carrier Squelch Greetings all,

I'm new to MSR-2000s, but not new to building repeaters.

I have an MSR-2000 (C73KSB-3106BT) that I am trying to configure for Carrier Squelch using various jumpers on the Backplane (fully optionable), Squelch Gate and R1 Audio card, but regardless of having any combination of the jumpers installed/not installed, I can't get the system to respond in CS.

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What did I miss?

73,

Mike
WM4B.

247. RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-20 16:27:16 UTC
From: Mike Besemer (WM4B)
Topic: 242 Message: 247

Yes and Yes.

I need the PL Card because the repeater will run PL Decode, but the AND squelch will be done by the controller, not the station; the station will run in CS, but still send PL Decode to the controller.

73,

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Rick KC0HH
Sent: Sunday, May 20, 2012 12:19 PM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Hello,

While you had it in "PL" mode, did you try throwing the "PL Disable" switch on the Station Control Card to see if it worked in CS mode ? Also, did you insert JU1 on the R1 Audio Card when you pulled the PL card ? The only cards you need in there are the Station Control Card and R1 Audio Card for CS operation with an external controller.

73' Rick KC0HH
Lamar, Colorado

--- On Sun, 5/20/12, Mike (WM4B) <mwbesemer@...> wrote:

From: Mike (WM4B) <mwbesemer@...>
Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch
To: MSR2000@yahoogroups.com
Date: Sunday, May 20, 2012, 6:46 AM

Tony,

That’s the mod that I’m using, but I still can’t get the stupid thing in CS. Jumpers appear correct. PL mode was good – everything was baselined.

73,

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Tony Lelieveld
Sent: Sunday, May 20, 2012 12:07 AM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] Configure MSR-2000 for Carrier Squelch

Mike,

Go to this link and you will likely find all the information you need.
http://www.repeater-builder.com/msr2000/msr2000-conversion-k4hal.html

Don't hesitate to start here as you will find more generalized info that may be helpful to you as well. http://www.repeater-builder.com/msr2000/msr2000-index.html

Good luck. Tony VE3DWI / K8DWI
****
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From: Mike
To: MSR2000@yahoogroups.com
Sent: Friday, May 18, 2012 7:03 AM
Subject: [MSR2000] Configure MSR-2000 for Carrier Squelch

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I've tried JU9 on the backplane is in, JU9 on the Station Control card is out, JU4, JU14, and JU15 on the Squelch Gate card are out, and JU102, JU103,JU104, and JU105 on the R1 are out. In this configuration, the transmitter remains keyed all the time.

What did I miss?

73,

Mike
WM4B
.

248. RE: [MSR2000] RE: Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-20 16:29:42 UTC
From: Mike Besemer (WM4B)
Topic: 242 Message: 248

Thought of it, but haven☐t tried it yet. The jumpers all look correct, but I may give it a shot. I still need PL decode the external controller will take care of the AND Squelching instead of the station.

What I☐ll probably do is go back to square 1, put it back in PL and try again. At this point, I don☐t know if I have a misplaced jumper or a bad card somewhere.

73,

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Brian Gieryk
Sent: Sunday, May 20, 2012 11:19 AM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] RE: Configure MSR-2000 for Carrier Squelch

Have you tried removing the Multi PL Encode/Decode cards?

Just a thought....

Brian
KE6IYC

249. RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-20 18:20:04 UTC
From: Ron Wright
Topic: 242 Message: 249

I had thought you were trying to get 2000 in carrier using the stock Mot cards and not an external controller...thought doing it totally Mot's way.
I run my MSR2000 with external controller and run COS from R1 sq and PL logic from the Mot stock PL card, TRN5073, pos 15, card in horiz left most position of top of card cage, not a PL board in vert cage. Some prefer SQ Gate card for COS and some replace the PL card with 3rd party board like the Comm-Spec TS64DS. I like Mot's PL although requires finding reeds, but works well. Also have PL rcv filter on it. Just have to remove jumper JU1 on R1 board so rcv audio will pass thru PL card.
I did have to jumper around the resistor on PL card to unused pin, I used "not used" pin 4 of the card; connected PL Card Q6 collector (PL logic out) directly Pin 4 bypassing resistor R19 which connects to pin 5 "PL Indicate". The PL logic has resistor R19 to its output pin 5 and is affected by other circuits in the 2000. This self installed jumper on the PL card gave good logic high to my controller.
I also installed transistor on back plane of PL card, pin 14, to control encode on/off. Pin 14 going high turns on encode. My logic was for low to encode and TTL so transistor buffered and inverted. This allows controller to control PL encode with short PL encode tail on repeater tail. Gives similar feature as Mot's reverse burst delayed PTT turning off PL encode prior to tx dropping.
The TRN5073 PL card is both encode and decode, separate reeds. The 74 & 75 are encode/decode, but not at same time.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@tampabay.rr.com

To: MSR2000@yahoogroups.com
From: mwbesemer@...
Date: Sun, 20 May 2012 12:27:16 -0400
Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Yes and Yes.

I need the PL Card because the repeater will run PL Decode, but the AND squelch will be done by the controller, not the station; the station will run in CS, but still send PL Decode to the controller.

73,

Mike

WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Rick KC0HH

Sent: Sunday, May 20, 2012 12:19 PM

To: MSR2000@yahoogroups.com

Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Hello,

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73' Rick KC0HH

Lamar, Colorado

--- On Sun, 5/20/12, Mike (WM4B) <mwbesemer@...> wrote:

From: Mike (WM4B) <mwbesemer@...>

Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

To: MSR2000@yahoogroups.com

Date: Sunday, May 20, 2012, 6:46 AM

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73,

Mike

WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Tony Lelieveld

Sent: Sunday, May 20, 2012 12:07 AM

To: MSR2000@yahoogroups.com

Subject: Re: [MSR2000] Configure MSR-2000 for Carrier Squelch

Mike,

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Good luck. Tony VE3DWI / K8DWI

****

----- Original Message -----

From: Mike

To: MSR2000@yahoogroups.com

Sent: Friday, May 18, 2012 7:03 AM

Subject: [MSR2000] Configure MSR-2000 for Carrier Squelch

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PL TRN5073APR

R1 TRN9689

I've tried JU9 on the backplane is in, JU9 on the Station Control card is out, JU4, JU14, and JU15 on the Squelch Gate card are out, and JU102, JU103,JU104, and JU105 on the R1 are out. In this configuration, the transmitter remains keyed all the time.

What did I miss?

73,

Mike

WM4B

..

250. RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-20 21:02:24 UTC
From: Mike Besemer (WM4B)
Topic: 242 Message: 250

Ron,

Sorry I was not very clear in my first email about what the desired endstate was going to be; was wrapped-around-the-axle about getting it in CS.

I'm using Skipp's method of conversion (here: http://www.radiowrench.com/sonic/so02004.html).

The good news is, I think I have it fixed; it's working in CS mode now and with all 3 PL cards, I'm getting good encode and decode. I'd like to eliminate the multi-tone PL cards and just use the normal PL card; that'll be the next step.

The bad news is that I don't know HOW I fixed it. I tracked it down as far as Q18 in the Station Control Module and thought I'd isolated it to a bad Q18. I pulled the transistor and was going to change it, but thought I'd give it a quick ohm check after I'd removed it. It checked good, so I reinstalled it, and after that the station was functioning normally. I don't know if there was a bad solder joint there or what, but that seemed to fix it. I really hate 'FM' fixes... I always worry that they'll come back after the system is deployed.

At any rate, I'm in business... for the time being anyway.

73 es tnx,

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Ron Wright
Sent: Sunday, May 20, 2012 2:20 PM
To: msr2000@...m
Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

I had thought you were trying to get 2000 in carrier using the stock Mot cards and not an external controller...thought doing it totally Mot's way.

I run my MSR2000 with external controller and run COS from R1 sq and PL logic from the Mot stock PL card, TRN5073, pos 15, card in horiz left most position of top of card cage, not a PL board in vert cage. Some prefer SQ Gate card for COS and some replace the PL card with 3rd party board like the Comm-Spec TS64DS. I like Mot's PL although requires finding reeds, but works well. Also have PL rcv filter on it. Just have to remove jumper JU1 on R1 board so rcv audio will pass thru PL card.

I did have to jumper around the resistor on PL card to unused pin, I used "not used" pin 4 of the card; connected PL Card Q6 collector (PL logic out) directly Pin 4 bypassing resistor R19 which connects to pin 5 "PL Indicate". The PL logic has resistor R19 to its output pin 5 and is affected by other circuits in the 2000. This self installed jumper on the PL card gave good logic high to my controller.

I also installed transistor on back plane of PL card, pin 14, to control encode on/off. Pin 14 going high turns on encode. My logic was for low to encode and TTL so transistor buffered and inverted. This allows controller to control PL encode with short PL encode tail on repeater tail. Gives similar feature as Mot's reverse burst delayed PTT turning off PL encode prior to tx dropping.

The TRN5073 PL card is both encode and decode, separate reeds. The 74 & 75 are encode/decode, but not at same time.

73, ron, n9ee/r

Ron Wright, N9EE/R
BSEE
Micro Computer Concepts
352-683-4476
mccrpt@...

To: MSR2000@yahoogroups.com
From: mwbesemer@...
Date: Sun, 20 May 2012 12:27:16 -0400
Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Yes and Yes.

I need the PL Card because the repeater will run PL Decode, but the AND squelch will be done by the controller, not the station; the station will run in CS, but still send PL Decode to the controller.

73,

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Rick KC0HH
Sent: Sunday, May 20, 2012 12:19 PM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Hello,

While you had it in "PL" mode, did you try throwing the "PL Disable" switch on the Station Control Card to see if it worked in CS mode ? Also, did you insert JU1 on the R1 Audio Card when you pulled the PL card ? The only cards you need in there are the Station Control Card and R1 Audio Card for CS

operation with an external controller.

73' Rick KC0HH
Lamar, Colorado

--- On Sun, 5/20/12, Mike (WM4B) <mwbesemer@...> wrote:

From: Mike (WM4B) <mwbesemer@...>
Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch
To: MSR2000@yahoogroups.com
Date: Sunday, May 20, 2012, 6:46 AM

Tony,

That□s the mod that I□m using, but I still can□t get the stupid thing in CS.
Jumpers appear correct. PL mode was good □ everything was baselined.

73,

Mike
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From: MSR2000@...m [mailto:MSR2000@yahoogroups.com] On Behalf Of
Tony Lelieveld
Sent: Sunday, May 20, 2012 12:07 AM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] Configure MSR-2000 for Carrier Squelch

Mike,

Go to this link and you will likely find all the information you need.
http://www.repeater-builder.com/msr2000/msr2000-conversion-k4hal.html

Don't hesitate to start here as you will find more generalized info that may
be helpful to you as well.
http://www.repeater-builder.com/msr2000/msr2000-index.html

Good luck. Tony VE3DWI / K8DWI
****
----- Original Message -----
From: Mike
To: MSR2000@yahoogroups.com
Sent: Friday, May 18, 2012 7:03 AM
Subject: [MSR2000] Configure MSR-2000 for Carrier Squelch

Greetings all,

I'm new to MSR-2000s, but not new to building repeaters.

I have an MSR-2000 (C73KSB-3106BT) that I am trying to configure for Carrier
Squelch using various jumpers on the Backplane (fully optionable), Squelch
Gate and R1 Audio card, but regardless of having any combination of the
jumpers installed/not installed, I can't get the system to respond in CS.

In some configurations, I lose the ability to quiet the receiver, in others the TX stays up all the time, in others the TX does not respond. Obviously I've managed to miss the correct combination of jumpers... so it's time to call in the big guns.

I have the following cards/modules installed:

PA TLD2602A
Receiver TRD6302APR
Exciter TLD9242APR
Station Control TRN5321APR
Time Out Timer TRN5295APR
Squelch Gate TRN5324APR
Multi PL Decoder TRN5329A3798Z
Multi PL Encoder TRN5292A3498U
PL TRN5073APR
R1 TRN9689

I've tried JU9 on the backplane is in, JU9 on the Station Control card is out, JU4, JU14, and JU15 on the Squelch Gate card are out, and JU102, JU103,JU104, and JU105 on the R1 are out. In this configuration, the transmitter remains keyed all the time.

What did I miss?

73,

Mike
WM4B
..

251. RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Yahoo group: MSR2000
Date: 2012-05-20 23:15:48 UTC
From: Ron Wright
Topic: 242 Message: 251

Mike,
Ok on getting the MSR2000.
As for Skipp's conversion looks ok. I did different. Not sure why Skipp thinks one has to do a lot of cutting of PC traces. I did none and used much of the 2000's circuitry. I like the SQ Gate card for COS for can adjust trigger level, but found not necessary if all you have is what comes with the typical MSR2000, the R1 card and Station Control Module. I also used the PL card, the TRN5073 version with PL filter. Since I could get the correct reeds I preferred staying with Mot stuff as much as I could.
I liked the R1 card for its squelch and rcvr de-emphasis circuit and also audio amp for speaker for maintenance. The Station Control Module provided good tx audio amp if needed.
Really the MSR2000 is pretty easy conversion. Just it is so versatile allowing so many configurations there can be lots to address and trace out, but adding an external controller as we Hams do makes an interface easy.
I also used the time out card at 8 minutes. I do not care to let a computer based controller set 24/7 at a unmanned site without some sort of hardware back up and protection. It was just setting the jumper and a plug in to make it work.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@tampabay.rr.com

To: MSR2000@yahoogroups.com
From: mwbesemer@...
Date: Sun, 20 May 2012 17:02:24 -0400
Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

Ron,

Sorry… I was not very clear in my first email about what the desired

endstate was going to be; was wrapped-around-the-axle about getting it in

CS.

I'm using Skipp's method of conversion (here:

http://www.radiowrench.com/sonic/so02004.html).

The good news is, I think I have it fixed; it's working in CS mode now and

with all 3 PL cards, I'm getting good encode and decode. I'd like to

eliminate the multi-tone PL cards and just use the normal PL card; that'll

be the next step.

The bad news is that I don't know HOW I fixed it. I tracked it down as far

as Q18 in the Station Control Module and thought I'd isolated it to a bad

Q18. I pulled the transistor and was going to change it, but thought I'd give it a quick ohm check after I'd removed it. It checked good, so I reinstalled it, and after that the station was functioning normally. I don't know if there was a bad solder joint there or what, but that seemed to fix it. I really hate 'FM' fixes... I always worry that they'll come back after the system is deployed.

At any rate, I'm in business... for the time being anyway.

73 es tnx,

Mike

WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Ron Wright

Sent: Sunday, May 20, 2012 2:20 PM

To: msr2000@yahoogroups.com

Subject: RE: [MSR2000] Configure MSR-2000 for Carrier Squelch

I had thought you were trying to get 2000 in carrier using the stock Mot cards and not an external controller...thought doing it totally Mot's way.

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Ron Wright, N9EE/R

BSEE

Micro Computer Concepts

352-683-4476 begin_of_the_skype_highlighting 352-683-4476 end_of_the_skype_highlighting

mccrpt@tampabay.rr.com

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Good luck. Tony VE3DWI / K8DWI

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What did I miss?

73,

Mike

WM4B

...

252. Micor UHF amp

Yahoo group: MSR2000
Date: 2012-07-15 14:41:56 UTC
From: Frank
Topic: 252 Message: 252

Hello all, need some wiring info for a Micor UHF (used on 440MHZ). AMp will be used with a NON Motorola repeater so I need to know how to power this unit, been reading some about some sort of power regulator built into these units and just need to know how to connect the power.

Thanks

253. RE: [MSR2000] Micor UHF amp

Yahoo group: MSR2000
Date: 2012-07-15 17:55:57 UTC
From: Ron Wright
Topic: 252 Message: 253

It has been a while since I serviced a Micor, but I think I can answer you question. Not sure which Micor you are working with; mobile or base.
The Micor PAs were powered directly from 12VDC, really a ferrite resonance power supply that put out about 14VDC 25 Amp and dropped a bit on high current draw.
The PA requires about 0.5W drive.
There is a power regulator in the PA that controls the voltage on the driver and this is used to set the power output. This regulator is on a small board with the adjustment pot.
All of the Micors I've worked with this board was separate from the PA. The board had SWR circuit for lowering the power in case one had bad load. The pass transistor for this voltage was on the PA.
You will need to produce this voltage to make the driver work. The rest of the PA's power is from the large 12 VDC terminals on the PA.
Go here for the Micor UHF PA schematic:
http://www.repeater-builder.com/micor/pdf/tle1713a-uhf-pa.pdf
You will see the control voltage on page 2. bottom left.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: baldwin88@...
Date: Sun, 15 Jul 2012 14:41:56 +0000
Subject: [MSR2000] Micor UHF amp

Hello all, need some wiring info for a Micor UHF (used on 440MHZ). AMp will be used with a NON Motorola repeater so I need to know how to power this unit, been reading some about some sort of power regulator built into these units and just need to know how to connect the power.

Thanks

254. Re: Micor UHF amp

Yahoo group: MSR2000
Date: 2012-07-15 20:16:42 UTC
From: Frank
Topic: 252 Message: 254

Ron,

Do Ineed to adjust to 8 volts or make a circuit that supplies the required voltage, the amp is a base station model UHF.

Frank

--- In MSR2000@yahoogroups.com, Ron Wright <mccrpt@...> wrote:
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> Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...
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> Date: Sun, 15 Jul 2012 14:41:56 +0000
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255. RE: [MSR2000] Re: Micor UHF amp

Yahoo group: MSR2000
Date: 2012-07-15 20:51:31 UTC
From: Ron Wright
Topic: 252 Message: 255

Well if you apply 8VDC to the control point the PA will probably put out max power. Not sure if you PA is cont duty and often the PAs will put out more than rated power.
You really need a pass transistor and voltage adjustment for this. There is some current for it is powering the RF driver. In the Micors I've worked with there was a pass transistor with a driving circuit, more like an adjustable voltage regulator. Some use the 5V regulator like the 7805, but cannot tell what power out level you will have at this voltage, but good and easy place to start.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: baldwin88@...
Date: Sun, 15 Jul 2012 20:16:42 +0000
Subject: [MSR2000] Re: Micor UHF amp

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> Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

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> From: baldwin88@...

> Date: Sun, 15 Jul 2012 14:41:56 +0000

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> Thanks

>

256. Re: Micor UHF amp

Yahoo group: MSR2000
Date: 2012-07-21 00:48:47 UTC
From: Frank
Topic: 252 Message: 256

The amp I have is the TLE1713a-3 large aluminum heat sink, I will be trying to use this with my Kenwood repeater, I have read the manual and see that the amp uses a control circuit which needs 8.6 volts, I have 2 questions:

1. Can I bypass the control circuit somehow and if so how can that be done?

2. If I cant bypass the control circuit can I use the Micor power supply which has a connector with 9.6 volts and connect that to the control circuit?

--- In MSR2000@yahoogroups.com, Ron Wright <mccrpt@...> wrote:
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>
> Well if you apply 8VDC to the control point the PA will probably put out max power. Not sure if you PA is cont duty and often the PAs will put out more than rated power.
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257. D-Star on MSR2000

Yahoo group: MSR2000
Date: 2012-08-22 14:37:11 UTC
From: Ron Wright, N9EE
Topic: 257 Message: 257

Hi all,

I am working with a fellow Ham on making a MSR2000 into a D-Star repeater. He has a very nice board to go between the rcvr discrementator and the PL audio input of the exciter.

The board is much more than just take the D-Star digital and feed to the exciter. It looks for 4800 baud from the D-Star digital to determine if good D-Star data.

You can see his board and schematic at: www.ARSrepeaters.com

As most of us know the MSR2000 is much better than the stuff ICOM supplies. Basically their repeaters are modified D-Star mobiles installed in a box.

We have the MSR2000 ready for the board install which we will be doing tomorrow. I'll let all know how well it works.

73, ron, n9ee/r

258. Re: [MSR2000] D-Star on MSR2000

Yahoo group: MSR2000
Date: 2012-08-22 15:54:32 UTC
From: ki4gnt@tampabay.rr.com
Topic: 257 Message: 258

Hey Ron check this out see how lo like this http://www.moencomm.com/ till next time from ki4gnt 73s.
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> We have the MSR2000 ready for the board install which we will be doing tomorrow. I'll let all know how well it works.
>
> 73, ron, n9ee/r
>

259. RE: [MSR2000] D-Star on MSR2000

Yahoo group: MSR2000
Date: 2012-08-22 16:38:31 UTC
From: Ron Wright
Topic: 257 Message: 259

Eli,
We will be connecting the 147.150 repeater to a GateWay type internet D-Star system. I'm letting Kyle and Matt handle this.
Thanks for the info. I'll show to Matt tomorrow. I am sure he is familiar with this.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@tampabay.rr.com

To: MSR2000@yahoogroups.com
CC: mccrpt@...
From: ki4gnt@...
Date: Wed, 22 Aug 2012 11:54:32 -0400
Subject: Re: [MSR2000] D-Star on MSR2000

Hey Ron check this out see how lo like this http://www.moencomm.com/ till next time from ki4gnt 73s.

---- "Ron Wright wrote:

> Hi all,

>

> I am working with a fellow Ham on making a MSR2000 into a D-Star repeater. He has a very nice board to go between the rcvr discrementator and the PL audio input of the exciter.

>

> The board is much more than just take the D-Star digital and feed to the exciter. It looks for 4800 baud from the D-Star digital to determine if good D-Star data.

>

> You can see his board and schematic at: www.ARSrepeaters.com

>

> As most of us know the MSR2000 is much better than the stuff ICOM supplies. Basically their repeaters are modified D-Star mobiles installed in a box.

>

> We have the MSR2000 ready for the board install which we will be doing tomorrow. I'll let all know how well it works.

>

> 73, ron, n9ee/r

>

260. RE: [MSR2000] D-Star on MSR2000

Yahoo group: MSR2000
Date: 2012-08-23 00:52:14 UTC
From: JIM Rogers
Topic: 257 Message: 260

Very interesting, Might want to try it here also. Have some MSR 2000 in the shop that might be just the ticket for one of our new Hot Spots. Jim

--- On Wed, 8/22/12, Ron Wright <mccrpt@...> wrote:

From: Ron Wright <mccrpt@...>
Subject: RE: [MSR2000] D-Star on MSR2000
To: msr2000@yahoogroups.com
Date: Wednesday, August 22, 2012, 11:38 AM

Eli,
We will be connecting the 147.150 repeater to a GateWay type internet D-Star system. I'm letting Kyle and Matt handle this.
Thanks for the info. I'll show to Matt tomorrow. I am sure he is familiar with this.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

261. RE: [MSR2000] D-Star on MSR2000

Yahoo group: MSR2000
Date: 2012-08-24 00:29:32 UTC
From: Ron Wright
Topic: 257 Message: 261

hi all,
We installed the D-Star adapter board with the MSR2000 VHF today and all is working great. We did have to bypass some of the audio circuits on the exciter. Went directly into exciter Q505 which is just before the channel element modulation input. When put on the DPL/PL tone input (exciter pin 15)there was overshoot of the digital data. The rcvr disc drive directly into the adapter.
We are now trying to set up so we can switch between analog and D-Star. If user has PL then the system will switch to analog, if not stays in D-Star.
The adapter tries to make sure incoming signal is D-Star by looking at the baud rate of the incoming signal. However, some harmonics of voice audio will trip this and cause the adapter to momentarily key the repeater. Minor problem as I am concerned.
So we are putting a D-Star repeater using MSR2000 on here in Tampa Bay area. Later we will be trying to mate with one of the GateWay connections.
73, ron, n9ee/r

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@tampabay.rr.com

262. Tampa RNC video

Yahoo group: MSR2000
Date: 2012-08-26 15:08:25 UTC
From: Ron Wright, N9EE
Topic: 262 Message: 262

Hi all,

I know off topic, but thought would be good to see.

In the below videos is some of the downtown Tampa for the RNC this coming week.

I think, IMHO, the video of the large groups of police is probably them being shown the area they will work and there duty station, not patrolling.

It does seem the Republicans think they need lots of protection. We all hope there is not some wacko who will try to do something to get into the History books.

Some fence company made lots of money on this one, hi.

The video does also show some of the nice streets and water in Tampa. We do have a very nice city to show the US and brag about.

hi,

Ive been going downtown daily to shoot footage for fun.

Lets just say the the police/military presence was INSANE as you'll see in video #2

I woke up hearing you guys talk about the police state downtown and had to share the videos!

Be VERY careful if you go down there. I was stopped three times yesterday as one of the officers said I looked "suspicious"

RB

Day 1
http://youtu.be/LBOyvRx95RI

Day 2
http://youtu.be/fQNbH737xqI

73, ron, n9ee/r

263. MSR 2000 "hanging" on air

Yahoo group: MSR2000
Date: 2012-08-27 02:17:24 UTC
From: erickuhn66
Topic: 263 Message: 263

Hello,

I maintain a 2 meter amateur repeater. Recently it has started to hang up on the air, sometimes for up 60 seconds, after a QSO. (Alot of times it's less than that, but longer than the 3 seconds it's supposed to.)

The repeater is a Motorola MSR2000 continuous duty; I am using a CAT400 controller. I've checked the connectors at the receive and transmit and they are all tight. I've also checked all of the connectors on the duplexer and the Polyphaser. They too are tight.

Power out on a Bird 43 wattmeter is 90 watts; Reflected is 1 watt.

The repeater will hang after a QSO, and will also do so after keying the radio using the "transmit" switch on the line card.

Any suggestions about where to look next?

264. Re: [MSR2000] MSR 2000 "hanging" on air

Yahoo group: MSR2000
Date: 2012-08-27 02:58:18 UTC
From: va3dwi@gmail.com
Topic: 263 Message: 264

Disconnect the antenna and use a good dummy load and see if the problem persists. Also try the same thing without the PA and just feed the duplexer with the exciter power (400 mW). Determine if those two tests show the same symptoms. If not, it likely is RF feedback into the control circuit.

Good luck es 73. Tony VE3DWI / K8DWI.

Sent wirelessly from my BlackBerry

-----Original Message-----
From: "erickuhn66" <erickuhn66@yahoo.com>
Sender: MSR2000@yahoogroups.com
Date: Mon, 27 Aug 2012 02:17:24
To: <MSR2000@yahoogroups.com>
Reply-To: MSR2000@yahoogroups.com
Subject: [MSR2000] MSR 2000 "hanging" on air

Hello,

I maintain a 2 meter amateur repeater. Recently it has started to hang up on the air, sometimes for up 60 seconds, after a QSO. (Alot of times it's less than that, but longer than the 3 seconds it's supposed to.)

The repeater is a Motorola MSR2000 continuous duty; I am using a CAT400 controller. I've checked the connectors at the receive and transmit and they are all tight. I've also checked all of the connectors on the duplexer and the Polyphaser. They too are tight.

Power out on a Bird 43 wattmeter is 90 watts; Reflected is 1 watt.

The repeater will hang after a QSO, and will also do so after keying the radio using the "transmit" switch on the line card.

Any suggestions about where to look next?

265. Re: MSR 2000 "hanging" on air

Yahoo group: MSR2000
Date: 2012-08-27 14:19:00 UTC
From: AlanM
Topic: 263 Message: 265

If you're running CSQ, try bumping up the squelch adjustment on the audio card. I had the same problem on a 2 meter machine of mine and adjusting the squelch fixed the problem.
If it is feeding RF back into itself, this may help.

73,

Alan - KA4BNI

--- In MSR2000@yahoogroups.com, "erickuhn66" <erickuhn66@...> wrote:
>
> Hello,
>
> I maintain a 2 meter amateur repeater. Recently it has started to hang up on the air, sometimes for up 60 seconds, after a QSO. (Alot of times it's less than that, but longer than the 3 seconds it's supposed to.)
>
> The repeater is a Motorola MSR2000 continuous duty; I am using a CAT400 controller. I've checked the connectors at the receive and transmit and they are all tight. I've also checked all of the connectors on the duplexer and the Polyphaser. They too are tight.
>
> Power out on a Bird 43 wattmeter is 90 watts; Reflected is 1 watt.
>
> The repeater will hang after a QSO, and will also do so after keying the radio using the "transmit" switch on the line card.
>
> Any suggestions about where to look next?
>

266. RE: [MSR2000] MSR 2000 "hanging" on air

Yahoo group: MSR2000
Date: 2012-08-27 16:30:44 UTC
From: Ron Wright
Topic: 263 Message: 266

Is the controller in carrier and the MSR2000 using PL??? If repeater is in PL it will sq audio when no user with PL has input, but if sq open and controller in carrier the controller will continue to key tx.
Normally if the repeater remains keyed one will hear the unsq rushing noise from the rcvr unless there is something else sqing the audio. You did not say if when this keying occurs what the tx audio is, noise or dead silence.
This happening after hitting the tx switch on the card is puzzling.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...m

To: MSR2000@yahoogroups.com
From: erickuhn66@...
Date: Mon, 27 Aug 2012 02:17:24 +0000
Subject: [MSR2000] MSR 2000 "hanging" on air

Hello,

I maintain a 2 meter amateur repeater. Recently it has started to hang up on the air, sometimes for up 60 seconds, after a QSO. (Alot of times it's less than that, but longer than the 3 seconds it's supposed to.)

The repeater is a Motorola MSR2000 continuous duty; I am using a CAT400 controller. I've checked the connectors at the receive and transmit and they are all tight. I've also checked all of the connectors on the duplexer and the Polyphaser. They too are tight.

Power out on a Bird 43 wattmeter is 90 watts; Reflected is 1 watt.

The repeater will hang after a QSO, and will also do so after keying the radio using the "transmit" switch on the line card.

Any suggestions about where to look next?

267. Re: D-Star on MSR2000

Yahoo group: MSR2000
Date: 2012-09-03 23:03:35 UTC
From: Ron Wright, N9EE
Topic: 257 Message: 267

We got the MSR2000 operating on D-Star installed and working very well this last weekend. We have a GateWay node connected and we are hearing lot of traffic from all over.

It is exciting mode and the repeater working and covering very well.

73, ron, n9ee/r

--- In MSR2000@yahoogroups.com, Ron Wright <mccrpt@...> wrote:
>
>
> hi all,
> We installed the D-Star adapter board with the MSR2000 VHF today and all is working great.
> We did have to bypass some of the audio circuits on the exciter. Went directly into exciter Q505 which is just before the channel element modulation input. When put on the DPL/PL tone input (exciter pin 15)there was overshoot of the digital data. The rcvr disc drive directly into the adapter.
> We are now trying to set up so we can switch between analog and D-Star. If user has PL then the system will switch to analog, if not stays in D-Star.
> The adapter tries to make sure incoming signal is D-Star by looking at the baud rate of the incoming signal. However, some harmonics of voice audio will trip this and cause the adapter to momentarily key the repeater. Minor problem as I am concerned.
> So we are putting a D-Star repeater using MSR2000 on here in Tampa Bay area. Later we will be trying to mate with one of the GateWay connections.
> 73, ron, n9ee/r
>
> 73, ron, n9ee/r
> Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...
>

268. low receive

Yahoo group: MSR2000
Date: 2012-10-03 02:02:41 UTC
From: Tom
Topic: 268 Message: 268

Got a VHF rcvr that has no meter deflection on meter 1 test set position.Receiver is deaf. Any suggestions ? , anyone have one for sale reasonable , ship to Canada. thanks , 73 ve1ta Tom

269. Re: [MSR2000] low receive

Yahoo group: MSR2000
Date: 2012-10-03 10:03:04 UTC
From: Paul VA3PC
Topic: 268 Message: 269

Tom; make sure that switch 201 has been removed. Its a plastic membrane
style, and has been known to short out killing the receiver. (I think
its original purpose was to zero the discriminator).
It looks like a white square about 3/8 to 1/2 in with a black plastic
button in the center, and its located near where the crystal elements
are at the back of the board near the connector. (Going from memory here).
73
Paul, VA3PC

On 02/10/2012 10:02 PM, Tom wrote:
>
> Got a VHF rcvr that has no meter deflection on meter 1 test set
> position.Receiver is deaf. Any suggestions ? , anyone have one for
> sale reasonable , ship to Canada. thanks , 73 ve1ta Tom
>
>

270. Re: [MSR2000] low receive

Yahoo group: MSR2000
Date: 2012-10-03 17:37:24 UTC
From: Mike Morris
Topic: 268 Message: 270

If someone can get me a photo of that I'd appreciate
it... I'll put the photo and a note about it on
repeater-builder (with photo credit).

Mike

At 03:03 AM 10/03/12, you wrote:

>Tom; make sure that switch 201 has been
>removed. Its a plastic membrane style, and has
>been known to short out killing the receiver. (I
>think its original purpose was to zero the discriminator).
>It looks like a white square about 3/8 to 1/2 in
>with a black plastic button in the center, and
>its located near where the crystal elements are
>at the back of the board near the connector. (Going from memory here).
>73
>Paul, VA3PC
>
>On 02/10/2012 10:02 PM, Tom wrote:
>>
>>
>>Got a VHF rcvr that has no meter deflection on
>>meter 1 test set position.Receiver is deaf. Any
>>suggestions ? , anyone have one for sale
>>reasonable , ship to Canada. thanks , 73 ve1ta Tom
>
>
>
>No virus found in this message.
>Checked by AVG - <http://www.avg.com>www.avg.com
>Version: 2013.0.2677 / Virus Database: 2591/5795 - Release Date: 09/27/12

271. RE: [MSR2000] low receive

Yahoo group: MSR2000
Date: 2012-10-04 23:03:49 UTC
From: Tom Cohoon
Topic: 268 Message: 271

Thanks Paul , we looked at that already.. I found a receiver on ebay but he won't ship to Canada or accept any queries .. Oh well. I just can't figure why many in the USA won't ship to us. I really isn't that difficult. Thanks again , Tom ve1ta

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Paul VA3PC
Sent: Wednesday, October 03, 2012 7:03 AM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] low receive

Tom; make sure that switch 201 has been removed. Its a plastic membrane style, and has been known to short out killing the receiver. (I think its original purpose was to zero the discriminator).
It looks like a white square about 3/8 to 1/2 in with a black plastic button in the center, and its located near where the crystal elements are at the back of the board near the connector. (Going from memory here).
73
Paul, VA3PC

On 02/10/2012 10:02 PM, Tom wrote:

Got a VHF rcvr that has no meter deflection on meter 1 test set position.Receiver is deaf. Any suggestions ? , anyone have one for sale reasonable , ship to Canada. thanks , 73 ve1ta Tom

272. MSR 2000 VHF Receiver Wanted

Yahoo group: MSR2000
Date: 2012-10-04 23:15:51 UTC
From: ve1ta
Topic: 272 Message: 272

Would anyone have or know where there might be a receiver for sale and would ship to CANADA Reasonably , thanks 73 ve1ta

273. RE: [MSR2000] low receive

Yahoo group: MSR2000
Date: 2012-10-05 00:19:20 UTC
From: larryjspammenot@teleport.com
Topic: 268 Message: 273

Tom, here's an example. I get asked to send things to Canada quite often on my ebay sales. It requires that I take the packaged item to the Post Office, have them weigh it, determine the shipping charges (has to go airmail) and then I return home to email the recipient what the actual charges will be. After getting payment (hopefully not a check or Canadian money order, as my bank charges me a $15.00 "Foreign Check" fee), I can then make another trip to the Post Office, fill out the customs forms, and send the package on its way. Each trip to the Post Office is a 20-mile round-trip drive that takes around an hour down and back very slow, winding mountain roads.

I specifiy in my ads "USA sales only", and still I've recently received bids from Canada, Italy, South America, New Zealand, Japan, Bulgaria and other Foreign places. The last winning bidder from Spain refused to cancel the transaction, that's where it sits as of today. Ebay refuses to refund my listing, etc. fees, even after repeated emails, phone conversations, etc. They don't support their sellers at all, sometimes. You're just out of luck, even playing by their rules.

It's just not worth the trouble, many times.....

-----Original Message-----
From: Tom Cohoon
Sent: Oct 4, 2012 4:03 PM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] low receive

Thanks Paul , we looked at that already.. I found a receiver on ebay but he won’t ship to Canada or accept any queries .. Oh well. I just can’t figure why many in the USA won’t ship to us. I really isn’t that difficult. Thanks again , Tom ve1ta

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Paul VA3PC
Sent: Wednesday, October 03, 2012 7:03 AM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] low receive

Tom; make sure that switch 201 has been removed. Its a plastic membrane style, and has been known to short out killing the receiver. (I think its original purpose was to zero the discriminator).
It looks like a white square about 3/8 to 1/2 in with a black plastic button in the center, and its located near where the crystal elements are at the back of the board near the connector. (Going from memory here).
73
Paul, VA3PC

On 02/10/2012 10:02 PM, Tom wrote:

Got a VHF rcvr that has no meter deflection on meter 1 test set position.Receiver is deaf. Any suggestions ? , anyone have one for sale reasonable , ship to Canada. thanks , 73 ve1ta Tom

274. RE: [MSR2000] low receive

Yahoo group: MSR2000
Date: 2012-10-05 00:38:22 UTC
From: Tom Cohoon
Topic: 268 Message: 274

Thanks for the explanation. Makes it bad for us poor Canucks that need an item that is available from our cousins….

It is too bad there are dishonorable people. Regards , Tom

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of larryjspammenot@...
Sent: Thursday, October 04, 2012 9:19 PM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] low receive

Tom, here's an example. I get asked to send things to Canada quite often on my ebay sales. It requires that I take the packaged item to the Post Office, have them weigh it, determine the shipping charges (has to go airmail) and then I return home to email the recipient what the actual charges will be. After getting payment (hopefully not a check or Canadian money order, as my bank charges me a $15.00 "Foreign Check" fee), I can then make another trip to the Post Office, fill out the customs forms, and send the package on its way. Each trip to the Post Office is a 20-mile round-trip drive that takes around an hour down and back very slow, winding mountain roads.

I specifiy in my ads "USA sales only", and still I've recently received bids from Canada, Italy, South America, New Zealand, Japan, Bulgaria and other Foreign places. The last winning bidder from Spain refused to cancel the transaction, that's where it sits as of today. Ebay refuses to refund my listing, etc. fees, even after repeated emails, phone conversations, etc. They don't support their sellers at all, sometimes. You're just out of luck, even playing by their rules.

It's just not worth the trouble, many times.....

-----Original Message-----
From: Tom Cohoon
Sent: Oct 4, 2012 4:03 PM
To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
Subject: RE: [MSR2000] low receive

Thanks Paul , we looked at that already.. I found a receiver on ebay but he won’t ship to Canada or accept any queries .. Oh well. I just can’t figure why many in the USA won’t ship to us. I really isn’t that difficult. Thanks again , Tom ve1ta

From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> [mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On Behalf Of Paul VA3PC
Sent: Wednesday, October 03, 2012 7:03 AM
To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
Subject: Re: [MSR2000] low receive

Tom; make sure that switch 201 has been removed. Its a plastic membrane style, and has been known to short out killing the receiver. (I think its original purpose was to zero the discriminator).
It looks like a white square about 3/8 to 1/2 in with a black plastic button in the center, and its located near where the crystal elements are at the back of the board near the connector. (Going from memory here).
73
Paul, VA3PC

On 02/10/2012 10:02 PM, Tom wrote:

Got a VHF rcvr that has no meter deflection on meter 1 test set position.Receiver is deaf. Any suggestions ? , anyone have one for sale reasonable , ship to Canada. thanks , 73 ve1ta Tom

275. Re: MSR 2000 VHF Receiver Wanted

Yahoo group: MSR2000
Date: 2012-10-05 02:42:12 UTC
From: ve3ext@primus.ca
Topic: 272 Message: 275

which board do you need ?

Jerry VE3EXT., near Windsor On

276. RE: [MSR2000] Re: MSR 2000 VHF Receiver Wanted

Yahoo group: MSR2000
Date: 2012-10-05 03:04:00 UTC
From: Tom Cohoon
Topic: 272 Message: 276

Hi Jerry , TRD6320 VHF Receiver same as this .http://www.ebay.com/itm/Motorola-MSR2000-VHF-Receiver-TRD6302-Channel-Element-/150913453171

Thanks , Tom –VE1TA

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of ve3ext@...
Sent: Thursday, October 04, 2012 11:42 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: MSR 2000 VHF Receiver Wanted

which board do you need ?

Jerry VE3EXT., near Windsor On

277. RE: [MSR2000] Re: MSR 2000 VHF Receiver Wanted

Yahoo group: MSR2000
Date: 2012-10-05 03:09:12 UTC
From: Tom Cohoon
Topic: 272 Message: 277

Correction , TRD6302

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of ve3ext@...
Sent: Thursday, October 04, 2012 11:42 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: MSR 2000 VHF Receiver Wanted

which board do you need ?

Jerry VE3EXT., near Windsor On

278. Re: MSR 2000 VHF Receiver Wanted

Yahoo group: MSR2000
Date: 2012-10-05 12:41:55 UTC
From: ve3ext@primus.ca
Topic: 272 Message: 278

Tom confirm you're receive freq. ? I will check out several boards and report back-----I'm sure I have what you need
jerry VE3EXT
LaSalle., near Windsor

279. RE: [MSR2000] low receive

Yahoo group: MSR2000
Date: 2012-10-05 14:52:46 UTC
From: Ron Wright
Topic: 268 Message: 279

This leads me to a comment and question.

Comment: I've used www.usps.com to calculate mailing cost to inside US, to Canada and other places and get quick cost. Saves trip to post office. Of course need to know weight. You can even print postage after giving a credit card. Never done this last part, but they give rates for this.

Question: if one selects in ebay listing "US sales only" will ebay still take bids from outside US??? I've listed a number of items for US only, but never had a problem. I've also listed for out side US and main problem are those from Italy...those buyers are mean, hi.

Other issue is the box size limits. I packed an old Hallicrafters receiver 3 times before I got down to acceptable size. Went to Australia, ebay sale for $120, shipping $230. Gave buyer option to kill the sale, but he wanted the rcvr and paid the shipping cost.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: larryj@...
Date: Thu, 4 Oct 2012 17:19:20 -0700
Subject: RE: [MSR2000] low receive

Tom, here's an example. I get asked to send things to Canada quite often on my ebay sales. It requires that I take the packaged item to the Post Office, have them weigh it, determine the shipping charges (has to go airmail) and then I return home to email the recipient what the actual charges will be. After getting payment (hopefully not a check or Canadian money order, as my bank charges me a $15.00 "Foreign Check" fee), I can then make another trip to the Post Office, fill out the customs forms, and send the package on its way. Each trip to the Post Office is a 20-mile round-trip drive that takes around an hour down and back very slow, winding mountain roads.

I specifiy in my ads "USA sales only", and still I've recently received bids from Canada, Italy, South America, New Zealand, Japan, Bulgaria and other Foreign places. The last winning bidder from Spain refused to cancel the transaction, that's where it sits as of today. Ebay refuses to refund my listing, etc. fees, even after repeated emails, phone conversations, etc. They don't support their sellers at all, sometimes. You're just out of luck, even playing by their rules.

It's just not worth the trouble, many times.....

-----Original Message-----

From: Tom Cohoon

Sent: Oct 4, 2012 4:03 PM

To: MSR2000@yahoogroups.com

Subject: RE: [MSR2000] low receive

Thanks Paul , we looked at that already.. I found a receiver on ebay but he won’t ship to Canada or accept any queries .. Oh well. I just can’t figure why many in the USA won’t ship to us. I really isn’t that difficult. Thanks again , Tom ve1ta

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Paul VA3PC

Sent: Wednesday, October 03, 2012 7:03 AM

To: MSR2000@yahoogroups.com

Subject: Re: [MSR2000] low receive

Tom; make sure that switch 201 has been removed. Its a plastic membrane style, and has been known to short out killing the receiver. (I think its original purpose was to zero the discriminator).

It looks like a white square about 3/8 to 1/2 in with a black plastic button in the center, and its located near where the crystal elements are at the back of the board near the connector. (Going from memory here).

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Paul, VA3PC

On 02/10/2012 10:02 PM, Tom wrote:

Got a VHF rcvr that has no meter deflection on meter 1 test set position.Receiver is deaf. Any suggestions ? , anyone have one for sale reasonable , ship to Canada. thanks , 73 ve1ta Tom

280. RE: [MSR2000] MSR 2000 VHF Receiver Wanted

Yahoo group: MSR2000
Date: 2012-10-05 15:01:39 UTC
From: Ron Wright
Topic: 272 Message: 280

I do not have spare 2000 rcvr, but by priority to mail for me in Florida to Canada, 1 lb is only $12.95. I think this is for all US to Canada and MSR2000 rcvr should go for 1 lb.

I'm sure you have looked on ebay. There are couple VHF rcvrs, one for $190 (been there for long time and can see why) and another for $25. However, seller states US only. Might talk him into it, hi.

Also there are complete MSR2000 rcvr/exciter and card cages for less than $100. See these often. However, ones listed now US only. Keep looking for they pop up all the time. Shipping would be much more than $12.95 to Canada.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: ve1ta@...
Date: Thu, 4 Oct 2012 23:15:51 +0000
Subject: [MSR2000] MSR 2000 VHF Receiver Wanted

Would anyone have or know where there might be a receiver for sale and would ship to CANADA Reasonably , thanks 73 ve1ta

281. RE: [MSR2000] low receive

Yahoo group: MSR2000
Date: 2012-10-05 15:08:43 UTC
From: Ron Wright
Topic: 268 Message: 281

Tom,

I've shipped to Canada both from ebay and my business so there are some that do.

Outside US I always use the mail service for as you said simple to do and for radio gear can get past customs easily for you. I always put on package "AMATEUR RADIO EQUIPMENT, MADE IN USA, NO DUTY". If Ham gear made in US then I think still no duty. I guess you still have to pay some kind of sale tax. Other countries I have no idea.

The main problem for things like from the MSR2000 the seller is commercial guy or business, not a Ham, and they have UPS pick up every day so is easy to bring up World Ship program, enter info and print a nice label. By mail most have to go to the post office taking time. I never like to ship by UPS outside US for it is much more expensive. And the mail seems better and easier to work with.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: ve1ta@eastlink.ca
Date: Thu, 4 Oct 2012 20:03:49 -0300
Subject: RE: [MSR2000] low receive

Thanks Paul , we looked at that already.. I found a receiver on ebay but he won’t ship to Canada or accept any queries .. Oh well. I just can’t figure why many in the USA won’t ship to us. I really isn’t that difficult. Thanks again , Tom ve1ta From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Paul VA3PC
Sent: Wednesday, October 03, 2012 7:03 AM
To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] low receive Tom; make sure that switch 201 has been removed. Its a plastic membrane style, and has been known to short out killing the receiver. (I think its original purpose was to zero the discriminator).
It looks like a white square about 3/8 to 1/2 in with a black plastic button in the center, and its located near where the crystal elements are at the back of the board near the connector. (Going from memory here).
73
Paul, VA3PCOn 02/10/2012 10:02 PM, Tom wrote: Got a VHF rcvr that has no meter deflection on meter 1 test set position.Receiver is deaf. Any suggestions ? , anyone have one for sale reasonable , ship to Canada. thanks , 73 ve1ta Tom

282. RE: [MSR2000] low receive

Yahoo group: MSR2000
Date: 2012-10-05 15:45:57 UTC
From: larryjspammenot@teleport.com
Topic: 268 Message: 282

Yes, even though you specify USA Sales only and check the box for no international, ebay still accepts the bids from anyone. If an international bidder wins the auction, they can refuse to back down from their winning bid. You then either have to ship the item, or return their Paypal payment. But ebay won't refund your auction seller's fees. You're just out of luck - I just went through this with them. They apologized and said "yes, that's a problem we have, and we're working on changing the policies." But you're still on the hook for all the listing, final, and other fees. Ebay doesn't support you at all - you have to watch your auctions carefully and then cancel any bidders you determine are not in the CONUS!

I did ship a receiver to New Zealand rather than lose all the fees. It cost him around $275. I also shipped a Heathkit SB-300 HF Receiver to Canada. That was expensive, too, as it has to go Airmail via USPS. But I had to make the two trips to the Post Office for each unit.

Why can't people just read the listings carefully and play by the rules?

Larry

-----Original Message-----
From: Ron Wright
Sent: Oct 5, 2012 7:52 AM
To: msr2000@yahoogroups.com
Subject: RE: [MSR2000] low receive

This leads me to a comment and question.

Comment: I've used www.usps.com to calculate mailing cost to inside US, to Canada and other places and get quick cost. Saves trip to post office. Of course need to know weight. You can even print postage after giving a credit card. Never done this last part, but they give rates for this.

Question: if one selects in ebay listing "US sales only" will ebay still take bids from outside US??? I've listed a number of items for US only, but never had a problem. I've also listed for out side US and main problem are those from Italy...those buyers are mean, hi.

Other issue is the box size limits. I packed an old Hallicrafters receiver 3 times before I got down to acceptable size. Went to Australia, ebay sale for $120, shipping $230. Gave buyer option to kill the sale, but he wanted the rcvr and paid the shipping cost.

73, ron, n9ee/r

Ron Wright, N9EE/R
BSEE
Micro Computer Concepts
352-683-4476
mccrpt@...

To: MSR2000@yahoogroups.com
From: larryj@...
Date: Thu, 4 Oct 2012 17:19:20 -0700
Subject: RE: [MSR2000] low receive

Tom, here's an example. I get asked to send things to Canada quite often on my ebay sales. It requires that I take the packaged item to the Post Office, have them weigh it, determine the shipping charges (has to go airmail) and then I return home to email the recipient what the actual charges will be. After getting payment (hopefully not a check or Canadian money order, as my bank charges me a $15.00 "Foreign Check" fee), I can then make another trip to the Post Office, fill out the customs forms, and send the package on its way. Each trip to the Post Office is a 20-mile round-trip drive that takes around an hour down and back very slow, winding mountain roads.

I specifiy in my ads "USA sales only", and still I've recently received bids from Canada, Italy, South America, New Zealand, Japan, Bulgaria and other Foreign places. The last winning bidder from Spain refused to cancel the transaction, that's where it sits as of today. Ebay refuses to refund my listing, etc. fees, even after repeated emails, phone conversations, etc. They don't support their sellers at all, sometimes. You're just out of luck, even playing by their rules.

It's just not worth the trouble, many times.....

-----Original Message-----
From: Tom Cohoon
Sent: Oct 4, 2012 4:03 PM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] low receive

Thanks Paul , we looked at that already.. I found a receiver on ebay but he won’t ship to Canada or accept any queries .. Oh well. I just can’t figure why many in the USA won’t ship to us. I really isn’t that difficult. Thanks again , Tom ve1ta

283. MSR2000 Power Supply Question - R601

Yahoo group: MSR2000
Date: 2012-10-08 22:06:04 UTC
From: wb5nfc
Topic: 283 Message: 283

I'm working on a power supply issue on a MSR2000 UHF 90-watt intermittent duty repeater. TPN1191 standard power supply.
Near the TPN-61388 power supply distribution board is a large, chassis-mounted 10 ohm resistor (R601). According to the schematic and the accompanying theory of operation, one side of the resistor should go to the emitter of Q603, the other side should go to the collector of Q601. Instead, the Q601 leg is grounded to the chassis. It looks like a factory mod, but it is not reflected in the manual. I'm chasing other problems, but this stopped me cold as I was beginning the troubleshooting process. Why would one side of R601 be grounded to the chassis? Thanks for any thoughts.

John

284. Re: MSR 2000 VHF Receiver Wanted

Yahoo group: MSR2000
Date: 2012-10-14 14:33:29 UTC
From: ve5ss
Topic: 272 Message: 284

I am in Saskatchewan and have 2 receivers, one is on ebay and the other is here Contact me if you wish it. The price is reasonable. I also have a TX strip and some cards if anyone is interested

--- In MSR2000@...m, Ron Wright <mccrpt@...> wrote:
>
>
> I do not have spare 2000 rcvr, but by priority to mail for me in Florida to Canada, 1 lb is only $12.95. I think this is for all US to Canada and MSR2000 rcvr should go for 1 lb.
>
> I'm sure you have looked on ebay. There are couple VHF rcvrs, one for $190 (been there for long time and can see why) and another for $25. However, seller states US only. Might talk him into it, hi.
>
> Also there are complete MSR2000 rcvr/exciter and card cages for less than $100. See these often. However, ones listed now US only. Keep looking for they pop up all the time. Shipping would be much more than $12.95 to Canada.
>
> 73, ron, n9ee/r
> Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...
>
> To: MSR2000@yahoogroups.com
> From: ve1ta@...
> Date: Thu, 4 Oct 2012 23:15:51 +0000
> Subject: [MSR2000] MSR 2000 VHF Receiver Wanted
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> Would anyone have or know where there might be a receiver for sale and would ship to CANADA Reasonably , thanks 73 ve1ta
>

285. Re: MSR 2000 VHF Receiver Wanted

Yahoo group: MSR2000
Date: 2012-10-14 14:36:25 UTC
From: ve5ss
Topic: 272 Message: 285

I am in Saskatchewan and have 2 receivers, one is on ebay and the other is here Contact me if you wish it. The price is reasonable. I also have a TX strip and some cards if anyone is interested

--- In MSR2000@...m, Ron Wright <mccrpt@...> wrote:
>
>
> I do not have spare 2000 rcvr, but by priority to mail for me in Florida to Canada, 1 lb is only $12.95. I think this is for all US to Canada and MSR2000 rcvr should go for 1 lb.
>
> I'm sure you have looked on ebay. There are couple VHF rcvrs, one for $190 (been there for long time and can see why) and another for $25. However, seller states US only. Might talk him into it, hi.
>
> Also there are complete MSR2000 rcvr/exciter and card cages for less than $100. See these often. However, ones listed now US only. Keep looking for they pop up all the time. Shipping would be much more than $12.95 to Canada.
>
> 73, ron, n9ee/r
> Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...
>
> To: MSR2000@yahoogroups.com
> From: ve1ta@...
> Date: Thu, 4 Oct 2012 23:15:51 +0000
> Subject: [MSR2000] MSR 2000 VHF Receiver Wanted
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> Would anyone have or know where there might be a receiver for sale and would ship to CANADA Reasonably , thanks 73 ve1ta
>

286. power supply question

Yahoo group: MSR2000
Date: 2012-10-18 14:49:41 UTC
From: AlanM
Topic: 57 Message: 286

I had a friend pose the following question to me about the MSR power supplies, and didn't have an answer so I wanted to see if someone else had one. Thanks.

I was hoping you might be able to shed some light on a power supply situation for a MSR2000 repeater.

The diagram for the 1191A shows something different than the actual wiring for a10 ohm big watt resistor off of the surge/overvoltage/distribution PC board and its is driving us nuts. Just wonder if you have ever worked on one of these units and might be able to offer some advise. Isnt ham radio fun

The diagram shows one side going to the power bus and the other side going to a switching transistor collector. . Two repeaters we have the latter lead going strainght to ground. Just wondering if you have ever run into this type of set up. Maybe a factory mod or different version PS

Would appreciate any thoughts you might have.

73,

Alan McClain - KA4BNI

287. Re: [MSR2000] power supply question

Yahoo group: MSR2000
Date: 2012-10-18 21:05:53 UTC
From: Tony Lelieveld
Topic: 57 Message: 287

It sounds like a bleeding resistor. Please give more details i.e. the schematic diagram number and the number of the transistor this resistor is going to on the schematic i.e. Q15 etc.

Tony VE3DWI

I had a friend pose the following question to me about the MSR power supplies, and didn't have an answer so I wanted to see if someone else had one. Thanks.

I was hoping you might be able to shed some light on a power supply situation for a MSR2000 repeater.

The diagram for the 1191A shows something different than the actual wiring for a10 ohm big watt resistor off of the surge/overvoltage/distribution PC board and its is driving us nuts. Just wonder if you have ever worked on one of these units and might be able to offer some advise. Isnt ham radio fun

The diagram shows one side going to the power bus and the other side going to a switching transistor collector. . Two repeaters we have the latter lead going strainght to ground. Just wondering if you have ever run into this type of set up. Maybe a factory mod or different version PS

Would appreciate any thoughts you might have.

73,

Alan McClain - KA4BNI

288. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2012-11-14 14:01:13 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 288

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /CTCSS Tone Board Info/TS32P-1.BMP
Uploaded by : lt_wright_flg <mccrpt@...>
Description : TS32 schematic

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/CTCSS%20Tone%20Board%20Info/TS32P-1.BMP

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

289. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2012-11-14 14:01:49 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 289

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /CTCSS Tone Board Info/TS32P-2.BMP
Uploaded by : lt_wright_flg <mccrpt@...>
Description : TS32 manual

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/CTCSS%20Tone%20Board%20Info/TS32P-2.BMP

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

290. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2012-11-14 14:02:25 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 290

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /CTCSS Tone Board Info/TS64DS Manual.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : TS64DS manual

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/CTCSS%20Tone%20Board%20Info/TS64DS%20Manual.pd
f

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

291. New file uploaded to MSR2000

Yahoo group: MSR2000
Date: 2012-11-14 14:02:48 UTC
From: MSR2000@yahoogroups.com
Topic: 15 Message: 291

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the MSR2000
group.

File : /CTCSS Tone Board Info/TS-64WDS INSTRUCTION SHEET.pdf
Uploaded by : lt_wright_flg <mccrpt@...>
Description : TS64WDS manual

You can access this file at the URL:
http://groups.yahoo.com/group/MSR2000/files/CTCSS%20Tone%20Board%20Info/TS-64WDS%20INSTRUCTION%20SHEET.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

lt_wright_flg <mccrpt@...>

292. OT - Manual for SPEEDCALL Model 412TR

Yahoo group: MSR2000
Date: 2012-11-23 18:28:56 UTC
From: Mike
Topic: 292 Message: 292

I'm looking for a manual (setup/installation at very least a schematic would be very nice to have as well) for a SPEEDCALL Model 412TR DTMF Decoder/Transponder (Horn-Honker).

I can be reached at mwbesemer(at)cox(dot)net.

73,

Mike
WM4B

293. Channel Elements

Yahoo group: MSR2000
Date: 2012-12-15 16:46:00 UTC
From: JeffreyB
Topic: 293 Message: 293

Hello all, Merry Christmas. I am looking for msr2000 channel elements in the ham freq`s. Even consider odd splits. Can find me here or renhoek33(at) yahoo.com Jeff

294. Re: Channel Elements

Yahoo group: MSR2000
Date: 2012-12-16 17:19:35 UTC
From: ve3ext@primus.ca
Topic: 293 Message: 294

Jeff are you looking for VHF?? I have some

Jerry VE3EXT

295. Re: [MSR2000] Re: Channel Elements

Yahoo group: MSR2000
Date: 2012-12-16 17:38:26 UTC
From: jeffrey bjurstrom
Topic: 293 Message: 295

Yes vhf, sorry i should have added that. Tell me what you have and the cost, 73`s Jeff

---
From: "ve3ext@..." <ve3ext@...>
To: MSR2000@yahoogroups.com
Sent: Sunday, December 16, 2012 12:19 PM
Subject: [MSR2000] Re: Channel Elements

Jeff are you looking for VHF?? I have some

Jerry VE3EXT

296. Re: Channel Elements

Yahoo group: MSR2000
Date: 2012-12-17 02:05:13 UTC
From: ve3ext@primus.ca
Topic: 293 Message: 296

Jeff - I have several for VHF MSR2000-$20. a pair., I pay shipping !

Let me know?
Jerry VE3EXT

297. msr2000 receiver

Yahoo group: MSR2000
Date: 2012-12-19 16:05:26 UTC
From: JeffreyB
Topic: 297 Message: 297

I am wondering can the 146-174 split receiver be tuned down into the 144 range? Would it need the caps in the front end changed? Any thing else? Thanks Jeff n8gzq

298. Re: [MSR2000] msr2000 receiver

Yahoo group: MSR2000
Date: 2012-12-19 16:45:16 UTC
From: Paul VA3PC
Topic: 297 Message: 298

Just a guess here Jeff, but I would say that nothing has to be changed. We used them commercially down to 138MHz range without difficulty (and subsequently tuned them back into amateur service 147.xx MHz) after they were retired from service. 73 Paul, VA3PC

On 19/12/2012 11:05 AM, JeffreyB wrote:
>
> I am wondering can the 146-174 split receiver be tuned down into the
> 144 range? Would it need the caps in the front end changed? Any thing
> else? Thanks Jeff n8gzq
>
>

299. RE: [MSR2000] Re: Channel Elements

Yahoo group: MSR2000
Date: 2012-12-20 17:51:21 UTC
From: mwbesemer@cox.net
Topic: 293 Message: 299
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

300. Re: Channel Elements

Yahoo group: MSR2000
Date: 2012-12-21 14:14:27 UTC
From: ve3ext@primus.ca
Topic: 293 Message: 300

Sorry none on the ham freqs.
Jerry VE3EXT

301. TRN5331 Squelch Gate card

Yahoo group: MSR2000
Date: 2013-01-08 15:59:22 UTC
From: AlanM
Topic: 301 Message: 301

Does anyone have the S1, S2 dip switch settings for the TRN5331 Squelch Gate Card?

Thank you,

Alan McClain - KA4BNI

302. Re: [MSR2000] TRN5331 Squelch Gate card

Yahoo group: MSR2000
Date: 2013-01-08 16:50:29 UTC
From: Mike WA6ILQ
Topic: 301 Message: 302

At 07:59 AM 01/08/13, you wrote:
>
>
>Does anyone have the S1, S2 dip switch settings for the TRN5331
>Squelch Gate Card?
>
>Thank you,
>
>Alan McClain - KA4BNI

Repeater-builder.com does not have the "stock" 5331 schematic, but
has a pointer to this one - it's been customized a little.

Look under "Project Documentation" here:
<http://ve6sbs.sbszoo.com/ve6nhb/3vhf.htm>

If anyone has the stock manual section for the 5331 card, please let me know.

Mike WA6ILQ

303. Re: [MSR2000] TRN5331 Squelch Gate card - full docs available.

Yahoo group: MSR2000
Date: 2013-01-11 10:17:13 UTC
From: Mike Morris WA6ILQ
Topic: 301 Message: 303

At 08:50 AM 01/08/13, Mike WA6ILQ wrote:

>At 07:59 AM 01/08/13, Alan KA4BNI wrote:
>>
>>
>>Does anyone have the S1, S2 dip switch settings for the TRN5331
>>Squelch Gate Card?
>>
>>Thank you,
>>
>>Alan McClain - KA4BNI
>
>Repeater-builder.com does not have the "stock" 5331 schematic, but
>has a pointer to this one - it's been customized a little.
>
>Look under "Project Documentation" here:
>http://ve6sbs.sbszoo.com/ve6nhb/3vhf.htm>
>
>If anyone has the stock manual section for the 5331 card, please let me know.
>
>Mike WA6ILQ

The TRN5324A Squelch Gate card was used on
"standard" stations, the TRN5331A Squelch Gate
card was used on stations equipped with the
SpectraTac voting option.

Documentation on the Spectra-Tac option is here:
<http://www.repeater-builder.com/motorola/msr2000/pdfs/msr2000-ctl-audio-man-68p81061e40c-tab-5-optional-equipment.pdf>
It includes everything on the TRN5331A module,
the parts list, the board layout, the schematic, etc.

But you will still want to look at the VE6SBS mods - they
are useful - especially the added LEDs.
<http://ve6sbs.sbszoo.com/ve6nhb/3vhf.htm>

Mike WA6ILQ

304. hey

Yahoo group: MSR2000
Date: 2013-01-29 02:38:40 UTC
From: jeffrey bjurstrom
Topic: 304 Message: 304

hard to believe this lol http://bit.ly/Wtoalo

jeffrey

305. yahoo hit

Yahoo group: MSR2000
Date: 2013-02-14 12:21:43 UTC
From: Ron Wright, N9EE
Topic: 305 Message: 305

Looks like the Yahoo received mail lists got hit at the server level. beware of malware on here, ebay, paypal, There Microsoft update I did 2 days ago seemed to patch all the slow sites issues that were created around thanksgiving, seemed to be a "netsession" issue

So if you have been receiving bogus nothing but links in a yahoo email this is why.

Never click on a link in an email unless you know what it is about. If just a link that looks strange it is probably a virus.

73, ron, n9ee/r

306. MSR2000 C73KSB3146B Conversion to 220 MHZ

Yahoo group: MSR2000
Date: 2013-04-08 17:13:10 UTC
From: jcbyrnes
Topic: 306 Message: 306

All;
I'm a new member to the group and have the ability to procure the above vhf repeater. Has anyone converted a VHF repeater for use on 220 MHZ? Am I beating a dead horse? Or is this possible?

James Byrnes
jcbyrnes@yahoo.com

307. MSR2000 Cards

Yahoo group: MSR2000
Date: 2013-05-03 15:12:06 UTC
From: ve5ss
Topic: 307 Message: 307

I have full set of extra cards for vhf repeater plus Rx and TX also a back plane.
If interested let me know, just for offers plus shipping from S0A3B0

308. RE: [MSR2000] MSR2000 Cards

Yahoo group: MSR2000
Date: 2013-05-03 20:15:00 UTC
From: Mike Besemer (WM4B)
Topic: 307 Message: 308

Which receiver, exciter, and backplane do you have and are you wanting to see everything as a set or do you want to piecemeal it out?

Definitely need part numbers for the receiver, exciter, and backplane.

Mike

WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of ve5ss
Sent: Friday, May 03, 2013 11:12 AM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] MSR2000 Cards

I have full set of extra cards for vhf repeater plus Rx and TX also a back plane.
If interested let me know, just for offers plus shipping from S0A3B0

309. Re: MSR2000 Cards

Yahoo group: MSR2000
Date: 2013-05-05 00:56:57 UTC
From: ve5ss
Topic: 307 Message: 309

I have 2 receivers both are TLD9242crr and one is tuned to 146.000
I have 1 exciter the board number is TRD6302APR
The backplane number is PC
I also have 2 channel elements KXN1688B
Plus some other boards, audio, line driver, squelch and PL
You can have the whole works if you wish, make me a offer
Grant See VE5SS (gsee@...

--- In MSR2000@yahoogroups.com, "Mike Besemer \(WM4B\)" <mwbesemer@...> wrote:
>
> Which receiver, exciter, and backplane do you have and are you wanting to
> see everything as a set or do you want to piecemeal it out?
>
>
>
> Definitely need part numbers for the receiver, exciter, and backplane.
>
>
>
> Mike
>
> WM4B
>
>
>
> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
> ve5ss
> Sent: Friday, May 03, 2013 11:12 AM
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] MSR2000 Cards
>
>
>
>
>
> I have full set of extra cards for vhf repeater plus Rx and TX also a back
> plane.
> If interested let me know, just for offers plus shipping from S0A3B0
>

310. RE: [MSR2000] Re: MSR2000 Cards

Yahoo group: MSR2000
Date: 2013-05-05 16:27:08 UTC
From: Mike Besemer (WM4B)
Topic: 307 Message: 310
Attachments: 2 described; binary payloads are missing from this source WARC

We still need the correct number off the backplane; should look similar to "TRN5083BPR".

I do not have any interest in the entire lot, nor do I wish to make an offer on it. If you have a price in mind, please post it. If you are willing to piecemeal it, please post prices for individual modules. We also need part numbers for the various modules; what you've told us isn't particularly helpful as there are numerous versions of most of them and the part numbers tell the real story.

I don't think you'll get any/many offers based on what you've told us so far.

Mike

WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of ve5ss
Sent: Saturday, May 04, 2013 8:57 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: MSR2000 Cards

I have 2 receivers both are TLD9242crr and one is tuned to 146.000
I have 1 exciter the board number is TRD6302APR
The backplane number is PC
I also have 2 channel elements KXN1688B
Plus some other boards, audio, line driver, squelch and PL
You can have the whole works if you wish, make me a offer
Grant See VE5SS (gsee@... <mailto:gsee%40sasktel.net>

--- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike Besemer \(WM4B\)" <mwbesemer@...> wrote:
>
> Which receiver, exciter, and backplane do you have and are you wanting to
> see everything as a set or do you want to piecemeal it out?
>
>
>
> Definitely need part numbers for the receiver, exciter, and backplane.
>
>
>
> Mike
>
> WM4B

>
>
>
> From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
[mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On
Behalf Of
> ve5ss
> Sent: Friday, May 03, 2013 11:12 AM
> To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> Subject: [MSR2000] MSR2000 Cards
>
>
>
>
>
> I have full set of extra cards for vhf repeater plus Rx and TX also a back
> plane.
> If interested let me know, just for offers plus shipping from S0A3B0
>

311. Re: MSR2000 Cards

Yahoo group: MSR2000
Date: 2013-05-08 03:32:24 UTC
From: ve5ss
Topic: 307 Message: 311

I thought the number stamped on the bask of the card ws the part number ??
RX TLD9242
TX TRD6302
BP TRN5083
Where do I find the part number.

--- In MSR2000@yahoogroups.com, "Mike Besemer \(WM4B\)" <mwbesemer@...> wrote:
>
> We still need the correct number off the backplane; should look similar to
> "TRN5083BPR".
>
>
>
> I do not have any interest in the entire lot, nor do I wish to make an offer
> on it. If you have a price in mind, please post it. If you are willing to
> piecemeal it, please post prices for individual modules. We also need part
> numbers for the various modules; what you've told us isn't particularly
> helpful as there are numerous versions of most of them and the part numbers
> tell the real story.
>
>
>
> I don't think you'll get any/many offers based on what you've told us so
> far.
>
>
>
> Mike
>
> WM4B
>
>
>
> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
> ve5ss
> Sent: Saturday, May 04, 2013 8:57 PM
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] Re: MSR2000 Cards
>
>
>
>
>
> I have 2 receivers both are TLD9242crr and one is tuned to 146.000
> I have 1 exciter the board number is TRD6302APR

> The backplane number is PC
> I also have 2 channel elements KXN1688B
> Plus some other boards, audio, line driver, squelch and PL
> You can have the whole works if you wish, make me a offer
> Grant See VE5SS (gsee@... <mailto:gsee%40sasktel.net>
>
> --- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike
> Besemer \(WM4B\)" <mwbesemer@> wrote:
> >
> > Which receiver, exciter, and backplane do you have and are you wanting to
> > see everything as a set or do you want to piecemeal it out?
> >
> >
> >
> > Definitely need part numbers for the receiver, exciter, and backplane.
> >
> >
> >
> > Mike
> >
> > WM4B
> >
> >
> >
> > From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> [mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On
> Behalf Of
> > ve5ss
> > Sent: Friday, May 03, 2013 11:12 AM
> > To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> > Subject: [MSR2000] MSR2000 Cards
> >
> >
> >
> >
> >
> > I have full set of extra cards for vhf repeater plus Rx and TX also a back
> > plane.
> > If interested let me know, just for offers plus shipping from S0A3B0
> >
>

312. RE: [MSR2000] Re: MSR2000 Cards

Yahoo group: MSR2000
Date: 2013-05-08 11:46:28 UTC
From: mwbesemer@...
Topic: 307 Message: 312
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

313. Running hot

Yahoo group: MSR2000
Date: 2013-05-21 19:46:48 UTC
From: James Dickenson
Topic: 313 Message: 313

Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's plugged in, even if not transmitting, the sink on it seems VERY hot. Is this normal? And yes, I just got this repeater.

314. RE: [MSR2000] Running hot

Yahoo group: MSR2000
Date: 2013-05-21 21:09:29 UTC
From: Mike Besemer (WM4B)
Topic: 313 Message: 314

Is it the TX or the PS that□s hot? In a warm room, the transformer in the
PS is normally too hot to put your hand on □ at least for long.

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
James Dickenson
Sent: Tuesday, May 21, 2013 3:47 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Running hot

Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's plugged
in, even if not transmitting, the sink on it seems VERY hot. Is this normal?
And yes, I just got this repeater.

315. RE: [MSR2000] Running hot

Yahoo group: MSR2000
Date: 2013-05-22 14:20:25 UTC
From: Ron Wright
Topic: 313 Message: 315

Yes, the power supply transformer runs hot, but the PA heat sink should be at room temp when not transmitting.

If the heat sink is getting hot then not a good sign. Might be PA oscillating or bad shorted power transistors. In any event no the PA heat sink should be cool.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: mwbesemer@...
Date: Tue, 21 May 2013 17:09:29 -0400
Subject: RE: [MSR2000] Running hot

Is it the TX or the PS that’s hot? In a warm room, the transformer in the

PS is normally too hot to put your hand on – at least for long.

Mike

WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of

James Dickenson

Sent: Tuesday, May 21, 2013 3:47 PM

To: MSR2000@yahoogroups.com

Subject: [MSR2000] Running hot

Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's plugged

in, even if not transmitting, the sink on it seems VERY hot. Is this normal?

And yes, I just got this repeater.

316. Re: [MSR2000] Running hot

Yahoo group: MSR2000
Date: 2013-05-22 14:25:59 UTC
From: va3dwi@...
Topic: 313 Message: 316

Take an Amp meter and measure the Stby current

It should indicate if you have a short somewhere.?
Gd luck. Tony VE3DWI?

Live every day as if it's your last.

From: Ron Wright
Sent: Wednesday, May 22, 2013 09:20
To: MSR2000@yahoogroups.com
Reply To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] Running hot

?

Yes, the power supply transformer runs hot, but the PA heat sink should be at room temp when not transmitting.

If the heat sink is getting hot then not a good sign.? Might be PA oscillating or bad shorted power transistors. In any event no the PA heat sink should be cool.

73, ron, n9ee/r

Ron Wright, N9EE/R
BSEE
Micro Computer Concepts
352-683-4476
mccrpt@...

To: MSR2000@yahoogroups.com
From: mwbesemer@...
Date: Tue, 21 May 2013 17:09:29 -0400
Subject: RE: [MSR2000] Running hot

?

Is it the TX or the PS that’s hot? In a warm room, the transformer in the PS is normally too hot to put your hand on – at least for long.

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of James Dickenson
Sent: Tuesday, May 21, 2013 3:47 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Running hot

?
Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's plugged in, even if not transmitting, the sink on it seems VERY hot. Is this normal?
And yes, I just got this repeater.

317. Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-22 19:30:35 UTC
From: James Dickenson
Topic: 313 Message: 317

I actually got two repeaters.. one for spare. So, I do have a different PA I could swap in there. Would any 'shorts' be in the actual PA unit? If so, I'll dig the other one out and swap PA's.

318. Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-22 19:57:12 UTC
From: James Dickenson
Topic: 313 Message: 318

I actually have the 100% duty PA for it too, but that has BNC connectors, while the intermittant has PL259's. Is this the "norm" (aka, do I have a modified one) and can I just put some connectors on it to convert to the pL259 cables?

--- In MSR2000@yahoogroups.com, "James Dickenson" <kc9tsu@...> wrote:
>
> Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's plugged in, even if not transmitting, the sink on it seems VERY hot. Is this normal? And yes, I just got this repeater.
>

319. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-22 20:21:27 UTC
From: Mike Besemer (WM4B)
Topic: 313 Message: 319

I don☐t believe a 100% duty PA will not run on chassis designed for the
Intermittent duty PA ☐ at least, not for long ☐ because the PS is different.

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
James Dickenson
Sent: Wednesday, May 22, 2013 3:57 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Running hot

I actually have the 100% duty PA for it too, but that has BNC connectors,
while the intermittant has PL259's. Is this the "norm" (aka, do I have a
modified one) and can I just put some connectors on it to convert to the
pL259 cables?

--- In MSR2000@yahoogroups.com, "James Dickenson" <kc9tsu@...> wrote:
>
> Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's plugged
in, even if not transmitting, the sink on it seems VERY hot. Is this normal?
And yes, I just got this repeater.
>

320. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 12:20:49 UTC
From: Ron Wright
Topic: 313 Message: 320

Yes, the 100% duty PAs have BNCs and you could change I guess. Probably easier to make cables.

You could run 100% PA in your MSR2000, but would need to reduce the power for the power supply might have problem at 100 W.

Make sure you connect the power control cable for it supplies and controls the exciter output driver voltage to determine the drive and power out.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@tampabay.rr.com

To: MSR2000@yahoogroups.com
From: kc9tsu@...
Date: Wed, 22 May 2013 19:57:12 +0000
Subject: [MSR2000] Re: Running hot

I actually have the 100% duty PA for it too, but that has BNC connectors, while the intermittant has PL259's. Is this the "norm" (aka, do I have a modified one) and can I just put some connectors on it to convert to the pL259 cables?

--- In MSR2000@yahoogroups.com, "James Dickenson" <kc9tsu@...> wrote:

>

> Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's plugged in, even if not transmitting, the sink on it seems VERY hot. Is this normal? And yes, I just got this repeater.

>

321. Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 13:03:53 UTC
From: James Dickenson
Topic: 313 Message: 321

Sounds good. I would probably only be interested in running 60 watts anyway.

--- In MSR2000@yahoogroups.com, Ron Wright <mccrpt@...> wrote:
>
> Yes, the 100% duty PAs have BNCs and you could change I guess. Probably easier to make cables.
>
> You could run 100% PA in your MSR2000, but would need to reduce the power for the power supply might have problem at 100 W.
>
> Make sure you connect the power control cable for it supplies and controls the exciter output driver voltage to determine the drive and power out.
>
> 73, ron, n9ee/r
> Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...
>
> To: MSR2000@yahoogroups.com
> From: kc9tsu@...
> Date: Wed, 22 May 2013 19:57:12 +0000
> Subject: [MSR2000] Re: Running hot
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> I actually have the 100% duty PA for it too, but that has BNC connectors, while the intermittant has PL259's. Is this the "norm" (aka, do I have a modified one) and can I just put some connectors on it to convert to the pL259 cables?
>
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>
> --- In MSR2000@yahoogroups.com, "James Dickenson" <kc9tsu@> wrote:
>
> >
>
> > Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's plugged in, even if not transmitting, the sink on it seems VERY hot. Is this normal? And yes, I just got this repeater.
>
> >
>

322. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 13:21:03 UTC
From: mwbesemer@...
Topic: 313 Message: 322
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

323. Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 13:27:36 UTC
From: James Dickenson
Topic: 313 Message: 323

No, not so far, I haven't. Once I can dig out the spare I want to swap PA's first to see if that helps.

--- In MSR2000@yahoogroups.com, mwbesemer@... wrote:
>
>
> Did you ever decide why (or even IF) the PA is running hot?
>
> 73,
>
> Mike
> WM4B
>
> On Thu, May 23, 2013 at 9:03 AM, James Dickenson wrote:
>
> Sounds good. I would probably only be interested in running 60 watts
> anyway.
>
> --- In MSR2000@yahoogroups.com
> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> , Ron Wright <mccrpt@> wrote:
> >
> > Yes, the 100% duty PAs have BNCs and you could change I guess.
> > Probably easier to make cables.
> > You could run 100% PA in your MSR2000, but would need to reduce the
> > power for the power supply might have problem at 100 W.
> > Make sure you connect the power control cable for it supplies and
> > controls the exciter output driver voltage to determine the drive and
> > power out.
> > 73, ron, n9ee/r Ron Wright, N9EE/RBSEEMicro Computer
> > Concepts352-683-4476mccrpt@
> > To: MSR2000@yahoogroups.com
> > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> > From: kc9tsu@ Date: Wed, 22 May 2013 19:57:12 +0000 Subject:
> > [MSR2000] Re: Running hot
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> > I actually have the 100% duty PA for it too, but that has BNC
> > connectors, while the intermittant has PL259's. Is this the "norm"
> > (aka, do I have a modified one) and can I just put some connectors on
> > it to convert to the pL259 cables?
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> >
> > --- In MSR2000@yahoogroups.com
> > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> > , "James Dickenson" <kc9tsu@> wrote:
> >>
> >
> >> Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's
> >> plugged in, even if not transmitting, the sink on it seems VERY hot.
> >> Is this normal? And yes, I just got this repeater.
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>
> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
>
> <javascript:parent.wgMail.openComposeWindow('ygroupsnotifications@yahoogroups.com')>
>

324. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 13:33:10 UTC
From: mwbesemer@...
Topic: 313 Message: 324
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
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325. Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 16:04:22 UTC
From: James Dickenson
Topic: 313 Message: 325

Alright, will do! If it turns out to be just heat transfer from the power supply, is something wrong, or is that normal?

--- In MSR2000@yahoogroups.com, mwbesemer@... wrote:
>
>
> You might be able to save yourself some time by just pulling the DC
> power leads lose and letting it run. That'll tell you if it's just heat
> transfer from the power supply.
>
> 73,
>
> Mike
> WM4B
>
> On Thu, May 23, 2013 at 9:27 AM, James Dickenson wrote:
>
> No, not so far, I haven't. Once I can dig out the spare I want to
> swap PA's first to see if that helps.
>
> --- In MSR2000@yahoogroups.com
> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> , mwbesemer@ wrote:
> >
> >
> > Did you ever decide why (or even IF) the PA is running hot?
> > 73,
> > Mike WM4B
> > On Thu, May 23, 2013 at 9:03 AM, James Dickenson wrote:
> > Sounds good. I would probably only be interested in running 60
> > watts anyway.
> > --- In MSR2000@yahoogroups.com
> > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
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> > <javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> > ')> , Ron Wright <mccrpt@> wrote:
> >>
> >> Yes, the 100% duty PAs have BNCs and you could change I guess.
> >> Probably easier to make cables. You could run 100% PA in your
> >> MSR2000, but would need to reduce the power for the power supply
> >> might have problem at 100 W. Make sure you connect the power control
> >> cable for it supplies and controls the exciter output driver voltage
> >> to determine the drive and power out. 73, ron, n9ee/r Ron Wright,
> >> N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@ To:
> >> MSR2000@yahoogroups.com

> >> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> >> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com
> >> <javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> >> ')> From: kc9tsu@ Date: Wed, 22 May 2013 19:57:12 +0000 Subject:
> >> [MSR2000] Re: Running hot
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> >> I actually have the 100% duty PA for it too, but that has BNC
> >> connectors, while the intermittant has PL259's. Is this the "norm"
> >> (aka, do I have a modified one) and can I just put some connectors on
> >> it to convert to the pL259 cables?
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> >> --- In MSR2000@yahoogroups.com
> >> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
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> >>> plugged in, even if not transmitting, the sink on it seems VERY
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> > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com

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> > 'ygroupsnotifications@yahoogroups.com
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326. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 16:12:11 UTC
From: mwbesemer@...
Topic: 313 Message: 326
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

327. Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 17:59:58 UTC
From: James Dickenson
Topic: 313 Message: 327

Ahh, ok, sounds good. But I guess my concern is this: Is it bad if the heat from the Pwr Supply is heating up the power amp heat sink?

--- In MSR2000@yahoogroups.com, mwbesemer@... wrote:
>
>
> I measured my power transformer with an IR thermometer once; can't
> recall the reading but it was HOT. If you lay you hand on it... you can
> hold it there... for a very little while. That's pretty much normal.
>
> I've got one on the bench now... if I think of it, I'll take it's
> temperature!
>
> Mike
> WM4B
>
> On Thu, May 23, 2013 at 12:04 PM, James Dickenson wrote:
>
> Alright, will do! If it turns out to be just heat transfer from the
> power supply, is something wrong, or is that normal?
>
> --- In MSR2000@yahoogroups.com
> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> , mwbesemer@ wrote:
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> >
> > You might be able to save yourself some time by just pulling the DC
> > power leads lose and letting it run. That'll tell you if it's just
> > heat transfer from the power supply.
> > 73,
> > Mike WM4B
> > On Thu, May 23, 2013 at 9:27 AM, James Dickenson wrote:
> > No, not so far, I haven't. Once I can dig out the spare I want to
> > swap PA's first to see if that helps.
> > --- In MSR2000@yahoogroups.com
> > <javascript:parent.wgMail.openComposeWindow('MSR2000@...m')>
> > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com
> > <javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> > ')> , mwbesemer@ wrote:
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> >> Did you ever decide why (or even IF) the PA is running hot? 73, Mike
> >> WM4B On Thu, May 23, 2013 at 9:03 AM, James Dickenson wrote:
> >> Sounds good. I would probably only be interested in running 60 watts
> >> anyway. --- In MSR2000@yahoogroups.com

> >> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
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> >> 'MSR2000@yahoogroups.com
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> >> ''MSR2000@yahoogroups.com
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> >>> Yes, the 100% duty PAs have BNCs and you could change I guess.
> >>> Probably easier to make cables. You could run 100% PA in your
> >>> MSR2000, but would need to reduce the power for the power supply
> >>> might have problem at 100 W. Make sure you connect the power control
> >>> cable for it supplies and controls the exciter output driver voltage
> >>> to determine the drive and power out. 73, ron, n9ee/r Ron Wright,
> >>> N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@ To:
> >>> MSR2000@yahoogroups.com
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> >>> 'MSR2000@yahoogroups.com
> >>> <javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
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> >>> <javascript:parent.wgMail.openComposeWindow(
> >>> ''MSR2000@yahoogroups.com
> >>> <javascript:parent.wgMail.openComposeWindow('''MSR2000@yahoogroups.com')>
> >>> ')> ')> From: kc9tsu@ Date: Wed, 22 May 2013 19:57:12 +0000 Subject:
> >>> [MSR2000] Re: Running hot
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> >>> I actually have the 100% duty PA for it too, but that has BNC
> >>> connectors, while the intermittant has PL259's. Is this the "norm"
> >>> (aka, do I have a modified one) and can I just put some connectors
> >>> on it to convert to the pL259 cables?
> >>> --- In MSR2000@yahoogroups.com
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328. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 18:05:32 UTC
From: mwbesemer@...
Topic: 313 Message: 328
Attachments: 2 described; binary payloads are missing from this source WARC

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[ Attachment content not displayed ]
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329. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 19:07:43 UTC
From: Ron Wright
Topic: 313 Message: 329

Mike,

If you touch the power supply transformer after it has been on for like 30min it will be what I call hot or very warm. Just the way the ferro-resonant circuit works. This is normal for the supply in the MSR2000.

However, I have not seen this heating do much to the PA...that is make it hot or very warm. Sure the PA will be warmer than if the radio were off, powered off, but not much warmer.

The PA is far enough away from the supply and heat sink in front of PA and power supply is to the rear so one should not see it hot if not transmitting for a while, 30 min.

I would say the PA and other parts of the radio, card cage, rx & exciter enclosure, should be about same temp if radio has not been transmitting.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: kc9tsu@...
Date: Thu, 23 May 2013 17:59:58 +0000
Subject: [MSR2000] Re: Running hot

Ahh, ok, sounds good. But I guess my concern is this: Is it bad if the heat from the Pwr Supply is heating up the power amp heat sink?

--- In MSR2000@yahoogroups.com, mwbesemer@... wrote:

>

>

> I measured my power transformer with an IR thermometer once; can't

> recall the reading but it was HOT. If you lay you hand on it... you can

> hold it there... for a very little while. That's pretty much normal.

>

> I've got one on the bench now... if I think of it, I'll take it's

> temperature!

>

> Mike

> WM4B

>

> On Thu, May 23, 2013 at 12:04 PM, James Dickenson wrote:

>

> Alright, will do! If it turns out to be just heat transfer from the

> power supply, is something wrong, or is that normal?

>

> --- In MSR2000@yahoogroups.com

> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>

> , mwbesemer@ wrote:

> >

> >

> > You might be able to save yourself some time by just pulling the DC

> > power leads lose and letting it run. That'll tell you if it's just

> > heat transfer from the power supply.

> > 73,

> > Mike WM4B

> > On Thu, May 23, 2013 at 9:27 AM, James Dickenson wrote:

> > No, not so far, I haven't. Once I can dig out the spare I want to

> > swap PA's first to see if that helps.

> > --- In MSR2000@yahoogroups.com

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> >> Did you ever decide why (or even IF) the PA is running hot? 73, Mike

> >> WM4B On Thu, May 23, 2013 at 9:03 AM, James Dickenson wrote:

> >> Sounds good. I would probably only be interested in running 60 watts

> >> anyway. --- In MSR2000@yahoogroups.com

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> >>> Yes, the 100% duty PAs have BNCs and you could change I guess.

> >>> Probably easier to make cables. You could run 100% PA in your

> >>> MSR2000, but would need to reduce the power for the power supply

> >>> might have problem at 100 W. Make sure you connect the power control

> >>> cable for it supplies and controls the exciter output driver voltage

> >>> to determine the drive and power out. 73, ron, n9ee/r Ron Wright,

> >>> N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@ To:

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> >>> ''MSR2000@yahoogroups.com

> >>> <javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>

> >>> ')> ')> From: kc9tsu@ Date: Wed, 22 May 2013 19:57:12 +0000 Subject:

> >>> [MSR2000] Re: Running hot

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> > ')>

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330. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 19:13:37 UTC
From: Ron Wright
Topic: 313 Message: 330

That is very good advice.

I think I would want to know if the PA is drawing current with no transmit. Removing the power leads would show this.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: msr2000@yahoogroups.com
From: mwbesemer@...
Date: Thu, 23 May 2013 13:33:10 +0000
Subject: RE: [MSR2000] Re: Running hot

You might be able to save yourself some time by just pulling the DC power leads lose and letting it run. That'll tell you if it's just heat transfer from the power supply.
73,
MikeWM4B

On Thu, May 23, 2013 at 9:27 AM, James Dickenson wrote:
No, not so far, I haven't. Once I can dig out the spare I want to swap PA's first to see if that helps.
--- In MSR2000@yahoogroups.com, mwbesemer@... wrote: > > > Did you ever decide why (or even IF) the PA is running hot? > > 73, > > Mike > WM4B > > On Thu, May 23, 2013 at 9:03 AM, James Dickenson wrote: > > Sounds good. I would probably only be interested in running 60 watts > anyway. > > --- In MSR2000@yahoogroups.com>
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on Wright, N9EE/RBSEEMicro Computer > > Concepts352-683-4476mccrpt@ > > To: MSR2000@yahoogroups.com> > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')> > > From: kc9tsu@ Date: Wed, 22 May 2013 19:57:12 +0000 Subject: > > [MSR2000] Re: Running hot > I actually have the 100% duty PA for it too, but that has BNC > > connectors, while the intermittant has PL259's. Is this the "norm" > > (aka, do I have a modified one) and can I just put some connectors on > > it to convert to the pL259 cables? > > > > > > --- In MSR2000@yahoogroups.com> > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')> > > , "James Dickenson" <kc9tsu@> wrote: > >> > > > >> Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's > >> plugged in, even if not transmitting, the sink on it seems VERY hot. > >> Is this normal? And yes, I just got this repeater. > > > >> > > > > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')> > > <javascript:parent.wgMail.openComposeWindow('ygroupsnotifications@yahoogroups.com')> >

331. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-23 21:30:15 UTC
From: Mike Besemer (WM4B)
Topic: 313 Message: 331

Okay when I got home from worked, I plugged in the MSR-2000 intermittent duty that I□ve been working on. IR thermometer measured the beginning temperature at 87 degrees F. After about an hour, just sitting idle, temperature had risen to only 90 degrees F.

I also pulled the positive lead off and measured the quiescent current; it was 100 uA (100 mA). You must do this on the positive lead, as A- is common to the chassis and you won□t read anything in the negative lead. If you□re reading any more than 100 uA or so, something is amiss.

In fact, BEFORE you try to measure the current, have you attempted to measure the power output of the PA with it sitting idle? (You don□t want to blow up your ammeter!) It□s possible that the exciter or PA may be oscillating. It□s also possible if there is oscillation, your power meter may not measure it because a) it will stop oscillating when you hook it up or b) the oscillations are out of range of the power meter. If you have a spectrum analyzer, use it instead and set the sweep very wide. (Don□t ask how I know!)

If you ARE measuring power with system in standby, pull the exciter board (or disconnect the exciter input from the PA) and see what happens. If it stops, either the exciter is oscillating, or the transmitter is keyed (even though you think it□s not). Jumpers can cause pesky problems. If there is power on the Channel Element frequency, then the system is probably keyed. If it's elsewhere, it's an oscillation. If it continues to produce power with the exciter disconnected, the PA is oscillating and opening it up will probably reveal someplace where the smoke got out - or a calibrated finger will tell you which PA transistor is bad.

Let us know how it goes.

73,

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of James Dickenson
Sent: Thursday, May 23, 2013 2:00 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Running hot

Ahh, ok, sounds good. But I guess my concern is this: Is it bad if the heat from the Pwr Supply is heating up the power amp heat sink?

--- In MSR2000@yahoogroups.com, mwbesemer@... wrote:
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>
> I measured my power transformer with an IR thermometer once; can't
> recall the reading but it was HOT. If you lay you hand on it... you can
> hold it there... for a very little while. That's pretty much normal.
>
> I've got one on the bench now... if I think of it, I'll take it's
> temperature!
>
> Mike
> WM4B
>
> On Thu, May 23, 2013 at 12:04 PM, James Dickenson wrote:
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> Alright, will do! If it turns out to be just heat transfer from the
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<javascript:parent.wgMail.openComposeWindow(''''MSR2000@yahoogroups.com')>
> >>> ')> ')> From: kc9tsu@ Date: Wed, 22 May 2013 19:57:12 +0000 Subject:
> >>> [MSR2000] Re: Running hot
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332. RE: [MSR2000] Re: Running hot

Yahoo group: MSR2000
Date: 2013-05-24 00:14:29 UTC
From: Mike (WM4B)
Topic: 313 Message: 332

4 hours after power up, the PA reads 94 F. And just for gee-whiz, the power transformer reads 148 F.

73,

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Mike Besemer (WM4B)
Sent: Thursday, May 23, 2013 5:30 PM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] Re: Running hot

Okay when I got home from worked, I plugged in the MSR-2000 intermittent duty that I□ve been working on. IR thermometer measured the beginning temperature at 87 degrees F. After about an hour, just sitting idle, temperature had risen to only 90 degrees F.

I also pulled the positive lead off and measured the quiescent current; it was 100 uA (100 mA). You must do this on the positive lead, as A- is common to the chassis and you won□t read anything in the negative lead. If you□re reading any more than 100 uA or so, something is amiss.

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Mike
WM4B

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>
> --- In MSR2000@yahoogroups.com
> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> , mwbesemer@ wrote:
> >
> >
> > You might be able to save yourself some time by just pulling the DC
> > power leads lose and letting it run. That'll tell you if it's just
> > heat transfer from the power supply.
> > 73,
> > Mike WM4B
> > On Thu, May 23, 2013 at 9:27 AM, James Dickenson wrote:
> > No, not so far, I haven't. Once I can dig out the spare I want to
> > swap PA's first to see if that helps.
> > --- In MSR2000@yahoogroups.com
> > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> > <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com
> > <javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>

> > ')> , mwbesemer@ wrote:
> >>
> >>
> >> Did you ever decide why (or even IF) the PA is running hot? 73, Mike

> >> WM4B On Thu, May 23, 2013 at 9:03 AM, James Dickenson wrote:
> >> Sounds good. I would probably only be interested in running 60 watts
> >> anyway. --- In MSR2000@yahoogroups.com
> >> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>

> >> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com
> >>
<javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> >> ')> <javascript:parent.wgMail.openComposeWindow(
> >> 'MSR2000@yahoogroups.com
> >>
<javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> >> <javascript:parent.wgMail.openComposeWindow(
> >> ''MSR2000@yahoogroups.com
> >>
<javascript:parent.wgMail.openComposeWindow('''MSR2000@yahoogroups.com')>
> >> ')> ')> , Ron Wright <mccrpt@> wrote:
> >>>
> >>> Yes, the 100% duty PAs have BNCs and you could change I guess.
> >>> Probably easier to make cables. You could run 100% PA in your
> >>> MSR2000, but would need to reduce the power for the power supply
> >>> might have problem at 100 W. Make sure you connect the power control
> >>> cable for it supplies and controls the exciter output driver voltage
> >>> to determine the drive and power out. 73, ron, n9ee/r Ron Wright,
> >>> N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@ To:
> >>> MSR2000@yahoogroups.com
> >>>
<javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> >>> <javascript:parent.wgMail.openComposeWindow(
> >>> 'MSR2000@yahoogroups.com
> >>>
<javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> >>> ')> <javascript:parent.wgMail.openComposeWindow(
> >>> 'MSR2000@yahoogroups.com
> >>>
<javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> >>> <javascript:parent.wgMail.openComposeWindow(
> >>> ''MSR2000@yahoogroups.com
> >>>
<javascript:parent.wgMail.openComposeWindow('''MSR2000@yahoogroups.com')>
> >>> ')> ')> From: kc9tsu@ Date: Wed, 22 May 2013 19:57:12 +0000 Subject:
> >>> [MSR2000] Re: Running hot
> >>>
> >>>
> >>>
> >>>
> >>>
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> >>>
> >>> I actually have the 100% duty PA for it too, but that has BNC
> >>> connectors, while the intermittant has PL259's. Is this the "norm"
> >>> (aka, do I have a modified one) and can I just put some connectors
> >>> on it to convert to the pL259 cables?
> >>> --- In MSR2000@yahoogroups.com
> >>>
<javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com')>
> >>> <javascript:parent.wgMail.openComposeWindow(
> >>> 'MSR2000@yahoogroups.com
> >>>
<javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> >>> ')> <javascript:parent.wgMail.openComposeWindow(
> >>> 'MSR2000@yahoogroups.com
> >>>
<javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> >>> <javascript:parent.wgMail.openComposeWindow(
> >>> ''MSR2000@yahoogroups.com
> >>>
<javascript:parent.wgMail.openComposeWindow('''MSR2000@yahoogroups.com')>
> >>> ')> ')> , "James Dickenson" <kc9tsu@> wrote:
> >>>>
> >>>
> >>>> Hi all, I have the MSR2K with the (I think) 50 watt PA. When it's
> >>>> plugged in, even if not transmitting, the sink on it seems VERY
> >>>> hot. Is this normal? And yes, I just got this repeater.
> >>>
> >>>>
> >>>
> >>
> >>
> >> <javascript:parent.wgMail.openComposeWindow('MSR2000@yahoogroups.com
> >>
<javascript:parent.wgMail.openComposeWindow(''MSR2000@yahoogroups.com')>
> >> <javascript:parent.wgMail.openComposeWindow(
> >> ''MSR2000@yahoogroups.com

```
> >>
<javascript:parent.wgMail.openComposeWindow('''MSR2000@yahoogroups.com')>
> >> ')> ')> <javascript:parent.wgMail.openComposeWindow(
> >> 'ygroupsnotifications@yahoogroups.com
> >>
<javascript:parent.wgMail.openComposeWindow(''ygroupsnotifications@yahoogrou
ps.com')>
> >> <javascript:parent.wgMail.openComposeWindow(
> >> ''ygroupsnotifications@yahoogroups.com
> >>
<javascript:parent.wgMail.openComposeWindow('''ygroupsnotifications@yahoogro
ups.com')>
> >> ')> ')>
> >
> >
> > <javascript:parent.wgMail.openComposeWindow(
> > ''ygroupsnotifications@yahoogroups.com
> >
<javascript:parent.wgMail.openComposeWindow('''ygroupsnotifications@yahoogro
ups.com')>
> > ')>
> > <javascript:parent.wgMail.openComposeWindow(
> > 'ygroupsnotifications@yahoogroups.com
> >
<javascript:parent.wgMail.openComposeWindow(''ygroupsnotifications@yahoogrou
ps.com')>
> > ')>
>
```

333. Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 01:15:53 UTC
From: Vince Waelti, K9TSU
Topic: 333 Message: 333

Hi all, I've run into an additional issue with my MSR2K. When I key the repeater, then unkey, the controller drops fine and all, but the repeater itself stays keyed for sometimes up to a minute aftereward. It's not the controller, because even with the controller unplugged, and I flip the "xmit" swtich on the control card, it sometimes stayed keyed.

Ideas? Not really a "problem," but just VERY annoying when you're trying to talk thru it.

334. RE: [MSR2000] Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 01:18:13 UTC
From: Mike (WM4B)
Topic: 333 Message: 334

Internal or external controller?

Already in service and started doing this, or new mod you□re working on?

Ham bands?

73,

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Vince Waelti, K9TSU
Sent: Friday, May 24, 2013 9:16 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Hanging up

Hi all, I've run into an additional issue with my MSR2K. When I key the repeater, then unkey, the controller drops fine and all, but the repeater itself stays keyed for sometimes up to a minute aftereward. It's not the controller, because even with the controller unplugged, and I flip the "xmit" swtich on the control card, it sometimes stayed keyed.

Ideas? Not really a "problem," but just VERY annoying when you're trying to talk thru it.

335. Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 01:24:48 UTC
From: Vince Waelti, K9TSU
Topic: 333 Message: 335

Ham repeater. Already inservice.. NHRC-2 controller (external.) I got it this way, and there were no issues when I got it. It literally just started doing this this afternoon. No mods or disturbing of any components or anything.

--- In MSR2000@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Internal or external controller?
>
> Already in service and started doing this, or new mod you're working on?
>
> Ham bands?
>
> 73,
>
> Mike
> WM4B
>
> From: MSR2000@yahoogroups.com [mailto:MSR2000@...m] On Behalf Of
> Vince Waelti, K9TSU
> Sent: Friday, May 24, 2013 9:16 PM
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] Hanging up
>
>
> Hi all, I've run into an additional issue with my MSR2K. When I key the
> repeater, then unkey, the controller drops fine and all, but the repeater
> itself stays keyed for sometimes up to a minute aftereward. It's not the
> controller, because even with the controller unplugged, and I flip the
> "xmit" swtich on the control card, it sometimes stayed keyed.
>
> Ideas? Not really a "problem," but just VERY annoying when you're trying to
> talk thru it.
>

336. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 01:29:41 UTC
From: Mike (WM4B)
Topic: 333 Message: 336

Look on page 75 of the Control and Audio manual (Squelch Gate Module).

There is a jumper that controls turn-off delay. It should have already been set to 0.

Just to the right of that jumper in the schematic you☐ll see a 68 uF capacitor ☐ C11. If it leaks, it charges more slowly and the turn-off is delayed.

I had that happen on one I modded a few months ago; it always hung for about 5 or 6 seconds even with the jumper set to zero.

Let us know how it goes.

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Vince Waelti, K9TSU
Sent: Friday, May 24, 2013 9:25 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Hanging up

Ham repeater. Already inservice.. NHRC-2 controller (external.) I got it this way, and there were no issues when I got it. It literally just started doing this this afternoon. No mods or disturbing of any components or anything.

--- In MSR2000@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Internal or external controller?
>
> Already in service and started doing this, or new mod you're working on?
>
> Ham bands?
>
> 73,
>
> Mike
> WM4B
>
> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
> Vince Waelti, K9TSU
> Sent: Friday, May 24, 2013 9:16 PM
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] Hanging up

>
>
> Hi all, I've run into an additional issue with my MSR2K. When I key the
> repeater, then unkey, the controller drops fine and all, but the repeater
> itself stays keyed for sometimes up to a minute aftereward. It's not the
> controller, because even with the controller unplugged, and I flip the
> "xmit" swtich on the control card, it sometimes stayed keyed.
>
> Ideas? Not really a "problem," but just VERY annoying when you're trying
to
> talk thru it.
>

337. Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 01:35:36 UTC
From: Vince Waelti, K9TSU
Topic: 333 Message: 337

I actually don't even have a squelch gate module on this thing...

--- In MSR2000@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Look on page 75 of the Control and Audio manual (Squelch Gate Module).
>
> There is a jumper that controls turn-off delay. It should have already been
> set to 0.
>
> Just to the right of that jumper in the schematic you'll see a 68 uF
> capacitor □ C11. If it leaks, it charges more slowly and the turn-off is
> delayed.
>
> I had that happen on one I modded a few months ago; it always hung for about
> 5 or 6 seconds even with the jumper set to zero.
>
> Let us know how it goes.
>
> Mike
> WM4B
>
> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
> Vince Waelti, K9TSU
> Sent: Friday, May 24, 2013 9:25 PM
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] Re: Hanging up
>
>
> Ham repeater. Already inservice.. NHRC-2 controller (external.) I got it
> this way, and there were no issues when I got it. It literally just started
> doing this this afternoon. No mods or disturbing of any components or
> anything.
>
> --- In MSR2000@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@> wrote:
> >
> > Internal or external controller?
> >
> > Already in service and started doing this, or new mod you're working on?
> >
> > Ham bands?
> >
> > 73,
> >
> > Mike

> > WM4B
> >
> > From: MSR2000@yahoogroups.com [mailto:MSR2000@...m] On Behalf
> Of
> > Vince Waelti, K9TSU
> > Sent: Friday, May 24, 2013 9:16 PM
> > To: MSR2000@yahoogroups.com
> > Subject: [MSR2000] Hanging up
> >
> >
> > Hi all, I've run into an additional issue with my MSR2K. When I key the
> > repeater, then unkey, the controller drops fine and all, but the repeater
> > itself stays keyed for sometimes up to a minute aftereward. It's not the
> > controller, because even with the controller unplugged, and I flip the
> > "xmit" swtich on the control card, it sometimes stayed keyed.
> >
> > Ideas? Not really a "problem," but just VERY annoying when you're trying
> to
> > talk thru it.
> >
>

338. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 01:38:26 UTC
From: Mike (WM4B)
Topic: 333 Message: 338

What modules do you have?

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
Vince Waelti, K9TSU
Sent: Friday, May 24, 2013 9:36 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Hanging up

I actually don't even have a squelch gate module on this thing...

--- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike
\(WM4B\)" <mwbesemer@... <mailto:mwbesemer@...> > wrote:
>
> Look on page 75 of the Control and Audio manual (Squelch Gate Module).
>
> There is a jumper that controls turn-off delay. It should have already
been
> set to 0.
>
> Just to the right of that jumper in the schematic you'll see a 68 uF
> capacitor - C11. If it leaks, it charges more slowly and the turn-off is
> delayed.
>
> I had that happen on one I modded a few months ago; it always hung for
about
> 5 or 6 seconds even with the jumper set to zero.
>
> Let us know how it goes.
>
> Mike
> WM4B
>
> From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
[mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On
Behalf Of
> Vince Waelti, K9TSU
> Sent: Friday, May 24, 2013 9:25 PM
> To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> Subject: [MSR2000] Re: Hanging up
>
>
> Ham repeater. Already inservice.. NHRC-2 controller (external.) I got it
> this way, and there were no issues when I got it. It literally just
started
> doing this this afternoon. No mods or disturbing of any components or
> anything.

>
> --- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike
\(WM4B\)" <mwbesemer@> wrote:
> >
> > Internal or external controller?
> >
> > Already in service and started doing this, or new mod you're working on?
> >
> > Ham bands?
> >
> > 73,
> >
> > Mike
> > WM4B
> >
> > From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
[mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On
Behalf
> Of
> > Vince Waelti, K9TSU
> > Sent: Friday, May 24, 2013 9:16 PM
> > To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> > Subject: [MSR2000] Hanging up
> >
> >
> > Hi all, I've run into an additional issue with my MSR2K. When I key the
> > repeater, then unkey, the controller drops fine and all, but the
repeater
> > itself stays keyed for sometimes up to a minute aftereward. It's not the
> > controller, because even with the controller unplugged, and I flip the
> > "xmit" swtich on the control card, it sometimes stayed keyed.
> >
> > Ideas? Not really a "problem," but just VERY annoying when you're trying
> to
> > talk thru it.
> >
>

339. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 01:38:52 UTC
From: Mike (WM4B)
Topic: 333 Message: 339

And where are you feeding PTT?

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
Vince Waelti, K9TSU
Sent: Friday, May 24, 2013 9:36 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Hanging up

I actually don't even have a squelch gate module on this thing...

--- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike
\(WM4B\)" <mwbesemer@... <mailto:mwbesemer@...> > wrote:
>
> Look on page 75 of the Control and Audio manual (Squelch Gate Module).
>
> There is a jumper that controls turn-off delay. It should have already
been
> set to 0.
>
> Just to the right of that jumper in the schematic you'll see a 68 uF
> capacitor - C11. If it leaks, it charges more slowly and the turn-off is
> delayed.
>
> I had that happen on one I modded a few months ago; it always hung for
about
> 5 or 6 seconds even with the jumper set to zero.
>
> Let us know how it goes.
>
> Mike
> WM4B
>
> From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
[mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On
Behalf Of
> Vince Waelti, K9TSU
> Sent: Friday, May 24, 2013 9:25 PM
> To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> Subject: [MSR2000] Re: Hanging up
>
>
> Ham repeater. Already inservice.. NHRC-2 controller (external.) I got it
> this way, and there were no issues when I got it. It literally just
started
> doing this this afternoon. No mods or disturbing of any components or
> anything.

>
> --- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike
\(WM4B\)" <mwbesemer@> wrote:
> >
> > Internal or external controller?
> >
> > Already in service and started doing this, or new mod you're working on?
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> > Ham bands?
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> > 73,
> >
> > Mike
> > WM4B
> >
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[mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On
Behalf
> Of
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> > Sent: Friday, May 24, 2013 9:16 PM
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> > Subject: [MSR2000] Hanging up
> >
> >
> > Hi all, I've run into an additional issue with my MSR2K. When I key the
> > repeater, then unkey, the controller drops fine and all, but the
repeater
> > itself stays keyed for sometimes up to a minute aftereward. It's not the
> > controller, because even with the controller unplugged, and I flip the
> > "xmit" swtich on the control card, it sometimes stayed keyed.
> >
> > Ideas? Not really a "problem," but just VERY annoying when you're trying
> to
> > talk thru it.
> >
>

340. Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 01:41:47 UTC
From: Vince Waelti, K9TSU
Topic: 333 Message: 340

I have a "PL F1 Control" card and the "station control" card. The previous owner(worked just fine for him with no changes) has it wired into a serial port with the wires going to various spots under the card carriage thing.. soldered to a few spots on the bottom PC board. I'll have to do some research to see if I can tell you exactly what's connected to what.

--- In MSR2000@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> And where are you feeding PTT?
>
>
>
>
>
> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
> Vince Waelti, K9TSU
> Sent: Friday, May 24, 2013 9:36 PM
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] Re: Hanging up
>
>
>
>
>
> I actually don't even have a squelch gate module on this thing...
>
> --- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike
> \(WM4B\)" <mwbesemer@ <mailto:mwbesemer@> > wrote:
> >
> > Look on page 75 of the Control and Audio manual (Squelch Gate Module).
> >
> > There is a jumper that controls turn-off delay. It should have already
> been
> > set to 0.
> >
> > Just to the right of that jumper in the schematic you'll see a 68 uF
> > capacitor - C11. If it leaks, it charges more slowly and the turn-off is
> > delayed.
> >
> > I had that happen on one I modded a few months ago; it always hung for
> about
> > 5 or 6 seconds even with the jumper set to zero.
> >
> > Let us know how it goes.
> >

> > Mike
> > WM4B
> >
> > From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> [mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On
> Behalf Of
> > Vince Waelti, K9TSU
> > Sent: Friday, May 24, 2013 9:25 PM
> > To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> > Subject: [MSR2000] Re: Hanging up
> >
> >
> > Ham repeater. Already inservice.. NHRC-2 controller (external.) I got it
> > this way, and there were no issues when I got it. It literally just
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> > anything.
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> > --- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike
> \(WM4B\)" <mwbesemer@> wrote:
> > >
> > > Internal or external controller?
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> > > Already in service and started doing this, or new mod you're working on?
> > >
> > > Ham bands?
> > >
> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> > > From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> [mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On
> Behalf
> > Of
> > > Vince Waelti, K9TSU
> > > Sent: Friday, May 24, 2013 9:16 PM
> > > To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> > > Subject: [MSR2000] Hanging up
> > >
> > >
> > > Hi all, I've run into an additional issue with my MSR2K. When I key the
> > > repeater, then unkey, the controller drops fine and all, but the
> repeater
> > > itself stays keyed for sometimes up to a minute aftereward. It's not the
> > > controller, because even with the controller unplugged, and I flip the
> > > "xmit" swtich on the control card, it sometimes stayed keyed.
> > >
> > > Ideas? Not really a "problem," but just VERY annoying when you're trying

> > to
> > > talk thru it.
> > >
> >
>

341. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 01:43:33 UTC
From: Mike (WM4B)
Topic: 333 Message: 341

Yeah. that's important because you can get various signals all over the thing!

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Vince Waelti, K9TSU
Sent: Friday, May 24, 2013 9:42 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Hanging up

I have a "PL F1 Control" card and the "station control" card. The previous owner(worked just fine for him with no changes) has it wired into a serial port with the wires going to various spots under the card carriage thing.. soldered to a few spots on the bottom PC board. I'll have to do some research to see if I can tell you exactly what's connected to what.

--- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@... <mailto:mwbesemer@...> > wrote:
>
> And where are you feeding PTT?
>
>
>
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>
> From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> [mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On Behalf Of
> Vince Waelti, K9TSU
> Sent: Friday, May 24, 2013 9:36 PM
> To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> Subject: [MSR2000] Re: Hanging up
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> I actually don't even have a squelch gate module on this thing...
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> --- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> <mailto:MSR2000%40yahoogroups.com> , "Mike
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342. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 02:38:58 UTC
From: Mike (WM4B)
Topic: 333 Message: 342

Just to be clear, pressing the XMIT switch on the SCM may or may not be the same as keying the repeater from the external controller. I've seen XMIT switches hang and cause a similar symptom (they get dirty and sticky).

Just to be certain, you need to verify the malfunction by keying the repeater from the same place the controller would - Pin 3 of the connector leading to the controller.

Mike

WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Mike (WM4B)
Sent: Friday, May 24, 2013 9:44 PM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] Re: Hanging up

Yeah. that's important because you can get various signals all over the thing!

From: MSR2000@yahoogroups.com <mailto:MSR2000@yahoogroups.com> [mailto:MSR2000@yahoogroups.com] On Behalf Of Vince Waelti, K9TSU
Sent: Friday, May 24, 2013 9:42 PM
To: MSR2000@yahoogroups.com <mailto:MSR2000@yahoogroups.com>
Subject: [MSR2000] Re: Hanging up

I have a "PL F1 Control" card and the "station control" card. The previous owner(worked just fine for him with no changes) has it wired into a serial port with the wires going to various spots under the card carriage thing.. soldered to a few spots on the bottom PC board. I'll have to do some research to see if I can tell you exactly what's connected to what.

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> And where are you feeding PTT?
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> Vince Waelti, K9TSU
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343. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 14:51:47 UTC
From: Ron Wright
Topic: 333 Message: 343

Not sure, but I bet the connector is not for a serial port, but rather the builder simply used a DB9 or similar for making some connections. I am not sure what board would use a serial port in the 2000. I've never seen one. Now a 3rd party controller might have this port.

I bet this connector is used to connect to an external controller. Just a guess.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@tampabay.rr.com

To: MSR2000@yahoogroups.com
From: kc9tsu@...
Date: Sat, 25 May 2013 01:41:47 +0000
Subject: [MSR2000] Re: Hanging up

I have a "PL F1 Control" card and the "station control" card. The previous owner(worked just fine for him with no changes) has it wired into a serial port with the wires going to various spots under the card carriage thing.. soldered to a few spots on the bottom PC board. I'll have to do some research to see if I can tell you exactly what's connected to what.

--- In MSR2000@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:

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> And where are you feeding PTT?

>

>

>

>

>

> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of

> Vince Waelti, K9TSU

> Sent: Friday, May 24, 2013 9:36 PM

> To: MSR2000@yahoogroups.com

> Subject: [MSR2000] Re: Hanging up

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> > Let us know how it goes.

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> > WM4B

> >

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> > > Vince Waelti, K9TSU

> > > Sent: Friday, May 24, 2013 9:16 PM

> > > To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>

> > > Subject: [MSR2000] Hanging up

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344. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 14:58:08 UTC
From: Ron Wright
Topic: 333 Message: 344

The R1 audio card, the horzional card in upper right, has a sq circuit on it and can provide COS among other features. Might be getting COS from this card. Not sure if you have this card.

Since the controller is dropping sounds like something is failing in the PTT circuit. I've seen in Micors where a ptt transistor would get hot, just hot from a higher than normal room temp like 95 deg, and the transistor would temporarily fail and keep repeater keyed. A long shot.

But what I am saying sounds like your failure is in the PTT circuit since the repeater was working and now staying keyed.

Just to make sure disconnect the controller as a start.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...m

To: MSR2000@yahoogroups.com
From: kc9tsu@...
Date: Sat, 25 May 2013 01:35:36 +0000
Subject: [MSR2000] Re: Hanging up

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345. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-25 16:04:20 UTC
From: Mike (WM4B)
Topic: 333 Message: 345

Yep.

Mike

WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
Ron Wright
Sent: Saturday, May 25, 2013 10:52 AM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] Re: Hanging up

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73, ron, n9ee/r

Ron Wright, N9EE/R

BSEE

Micro Computer Concepts

352-683-4476

mccrpt@... <mailto:mccrpt@...>

To: MSR2000@yahoogroups.com <mailto:MSR2000@yahoogroups.com>
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346. Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-26 01:07:16 UTC
From: Vince Waelti, K9TSU
Topic: 333 Message: 346

Alrighty.. I unplugged the controller and used the "xmit" switch on the station control card. Same thing. Click it over, and it stays tx'ing, eventho the switch goes back. I do think it's a PA issue, because if I unplug the three wires that have the "block connector" on the back of the PA, the thing works fine. Ideas?

--- In MSR2000@yahoogroups.com, "Vince Waelti, K9TSU" <kc9tsu@...> wrote:
>
> Hi all, I've run into an additional issue with my MSR2K. When I key the repeater, then unkey, the controller drops fine and all, but the repeater itself stays keyed for sometimes up to a minute aftereward. It's not the controller, because even with the controller unplugged, and I flip the "xmit" swtich on the control card, it sometimes stayed keyed.
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> Ideas? Not really a "problem," but just VERY annoying when you're trying to talk thru it.
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347. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-26 01:39:37 UTC
From: Mike (WM4B)
Topic: 333 Message: 347

Only one of those wires has anything to do with TX.

What do you mean my ☐works fine☐? Can you hear the output of the exciter when the PA is disconnected and it☐s dropping normally?

And again, the XMIT switch is not necessarily the same as keying it from the controller there are many, many ways this station can be keyed.

Do you have manuals?

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Vince Waelti, K9TSU
Sent: Saturday, May 25, 2013 9:07 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Hanging up

Alrighty.. I unplugged the controller and used the "xmit" switch on the station control card. Same thing. Click it over, and it stays tx'ing, eventho the switch goes back. I do think it's a PA issue, because if I unplug the three wires that have the "block connector" on the back of the PA, the thing works fine. Ideas?

--- In MSR2000@yahoogroups.com, "Vince Waelti, K9TSU" <kc9tsu@...> wrote:
>
> Hi all, I've run into an additional issue with my MSR2K. When I key the repeater, then unkey, the controller drops fine and all, but the repeater itself stays keyed for sometimes up to a minute aftereward. It's not the controller, because even with the controller unplugged, and I flip the "xmit" swtich on the control card, it sometimes stayed keyed.
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> Ideas? Not really a "problem," but just VERY annoying when you're trying to talk thru it.
>

348. Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-26 01:50:38 UTC
From: Vince Waelti, K9TSU
Topic: 333 Message: 348

I know the xmit isn't the only way, I'm just sayin'...

Yes, I did download a manual. But by "works fine," yes, I mean I can hear the exciter with the HT. However, it's passing controller audio (such as beeps/boops,etc), but no actual "reciever audio." Strange.

--- In MSR2000@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Only one of those wires has anything to do with TX.
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> when the PA is disconnected and it's dropping normally?
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> controller there are many, many ways this station can be keyed.
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> Do you have manuals?
>
> Mike
> WM4B
>
> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
> Vince Waelti, K9TSU
> Sent: Saturday, May 25, 2013 9:07 PM
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] Re: Hanging up
>
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> Alrighty.. I unplugged the controller and used the "xmit" switch on the
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> "xmit" swtich on the control card, it sometimes stayed keyed.
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> > Ideas? Not really a "problem," but just VERY annoying when you're trying
> to talk thru it.
> >

>

349. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-26 02:07:48 UTC
From: Mike (WM4B)
Topic: 333 Message: 349

No it□s not strange at all. The way the MSR-2000 gates audio is
complicated. That gets back to what I was saying about the XMIT switch.
For lack of a better term, the XMIT switch may be the WRONG way to key it
for testing.

You need to disconnect the controller, ground the PTT pin on that connector,
and observe the TX behavior. Does it work properly or does it hang? If it
hangs, you need to trace the PTT signal between the point that the
controller connects to the backplane and the exciter and then find the spot
where it begins misbehaving.

What equipment do you have for troubleshooting and are you comfortable with
your troubleshooting skills. There's not much more we can talk about until
you get in there with a voltmeter or scope and work your way through the
schematics.

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
Vince Waelti, K9TSU
Sent: Saturday, May 25, 2013 9:51 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Hanging up

I know the xmit isn't the only way, I'm just sayin'...

Yes, I did download a manual. But by "works fine," yes, I mean I can hear
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Of
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> To: MSR2000@yahoogroups.com
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>

350. Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-26 02:18:41 UTC
From: Vince Waelti, K9TSU
Topic: 333 Message: 350

I have an entire 'nother one for spare parts. I'm gonna swap some parts first, but in the mean time I'll check a few of those things.

--- In MSR2000@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> No it's not strange at all. The way the MSR-2000 gates audio is
> complicated. That gets back to what I was saying about the XMIT switch.
> For lack of a better term, the XMIT switch may be the WRONG way to key it
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> You need to disconnect the controller, ground the PTT pin on that connector,
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> What equipment do you have for troubleshooting and are you comfortable with
> your troubleshooting skills. There's not much more we can talk about until
> you get in there with a voltmeter or scope and work your way through the
> schematics.
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> Mike
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>
> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of
> Vince Waelti, K9TSU
> Sent: Saturday, May 25, 2013 9:51 PM
> To: MSR2000@yahoogroups.com
> Subject: [MSR2000] Re: Hanging up
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> I know the xmit isn't the only way, I'm just sayin'...
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> Yes, I did download a manual. But by "works fine," yes, I mean I can hear
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> > Vince Waelti, K9TSU
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>

351. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-26 02:31:20 UTC
From: Mike (WM4B)
Topic: 333 Message: 351

Just remember. every module has jumpers on it. If they're not the same, you may see some weird things!

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Vince Waelti, K9TSU
Sent: Saturday, May 25, 2013 10:19 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Hanging up

I have an entire 'nother one for spare parts. I'm gonna swap some parts first, but in the mean time I'll check a few of those things.

--- In MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@... <mailto:mwbesemer@...> > wrote:
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> What equipment do you have for troubleshooting and are you comfortable with
> your troubleshooting skills. There's not much more we can talk about until
> you get in there with a voltmeter or scope and work your way through the
> schematics.
>
> Mike
> WM4B
>
> From: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com> [mailto:MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>] On Behalf Of
> Vince Waelti, K9TSU
> Sent: Saturday, May 25, 2013 9:51 PM
> To: MSR2000@yahoogroups.com <mailto:MSR2000%40yahoogroups.com>
> Subject: [MSR2000] Re: Hanging up
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> I know the xmit isn't the only way, I'm just sayin'...
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> > Vince Waelti, K9TSU
> > Sent: Saturday, May 25, 2013 9:07 PM
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> >
>

352. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-26 02:37:37 UTC
From: Ron Wright
Topic: 333 Message: 352

The rcvr audio path is first from the receiver disc and it goes to the R1 card. If jumper (I forget the jumper nr) is not in then the audio routes to the back plane over to the PL card, the horiz card in upper left. The PL card has PL decoding and a tone filter. The audio then goes back thru the back plane to the R1 card and then to an amp and out to the back plane. If the jumper is in then the audio does not go to the back plane and is jumpered to the last audio amp.

The R1 card also have de-emphasis and sq circuit so one can get flat audio and COS from it.

This audio amp has a gate that I think is gated on/off.

If no rcv audio I would be looking at the R1 card and making sure the audio is being unmuted.

If you need particulars on the above let me know and I'll get out my manuals.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: kc9tsu@...
Date: Sun, 26 May 2013 01:50:38 +0000
Subject: [MSR2000] Re: Hanging up

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> Vince Waelti, K9TSU

> Sent: Saturday, May 25, 2013 9:07 PM

> To: MSR2000@yahoogroups.com

> Subject: [MSR2000] Re: Hanging up

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> to talk thru it.

> >

>

353. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-26 05:42:51 UTC
From: Eric Grabowski
Topic: 333 Message: 353
Attachments: 1 described; binary payloads are missing from this source WARC

Here's a drawing I made recently while tracing the audio through an MSR 2000.
Hope you find it useful.

73 and aloha, Eric KH6CQ

--- On Sat, 5/25/13, Ron Wright <mccrpt@...> wrote:

From: Ron Wright <mccrpt@tampabay.rr.com>
Subject: RE: [MSR2000] Re: Hanging up
To: "MSR2000@yahoogroups.com" <msr2000@yahoogroups.com>
Date: Saturday, May 25, 2013, 4:37 PM

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If you need particulars on the above let me know and I'll get out my manuals.

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Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: kc9tsu@...
Date: Sun, 26 May 2013 01:50:38 +0000
Subject: [MSR2000] Re: Hanging up

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> Vince Waelti, K9TSU

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> To: MSR2000@yahoogroups.com

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>

354. RE: [MSR2000] Re: Hanging up [1 Attachment]

Yahoo group: MSR2000
Date: 2013-05-26 14:25:16 UTC
From: Ron Wright
Topic: 333 Message: 354

Eric,

Very good diagram, thanks.

Might consider (no matter what we do always something to be added, hi) the jumpers on the boards to make some of the routing. Like on the R1 card 1. JU102 in to force the rcv audio to the PL card and then JU1 not in to use the PL card or 2. leave JU102 out and insert JU1 to bypass the PL card.

So many do not use the Mot PL card due to it requiring a reed and choose something like the Comm Spec TS64WDS board which can easily replace the 2k's PL card.

The Repeater Builders board has some excellent diagrams for the cards. I just have not found a schematic for the back plane, only a jumper list.

Thanks again for the diagram.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@tampabay.rr.com

To: MSR2000@yahoogroups.com
From: ejgrabowski@...
Date: Sat, 25 May 2013 22:42:51 -0700
Subject: RE: [MSR2000] Re: Hanging up [1 Attachment]

[Attachment(s) from Eric Grabowski included below]

Here's a drawing I made recently while tracing the audio through an MSR 2000.
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73 and aloha, Eric KH6CQ

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From: Ron Wright <mccrpt@tampabay.rr.com>
Subject: RE: [MSR2000] Re: Hanging up
To: "MSR2000@yahoogroups.com" <msr2000@yahoogroups.com>
Date: Saturday, May 25, 2013, 4:37 PM

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To: MSR2000@yahoogroups.com
From: kc9tsu@...
Date: Sun, 26 May 2013 01:50:38 +0000
Subject: [MSR2000] Re: Hanging up

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> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of

> Vince Waelti, K9TSU

> Sent: Saturday, May 25, 2013 9:07 PM

> To: MSR2000@yahoogroups.com

> Subject: [MSR2000] Re: Hanging up

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>

355. WTB: Vibrasponder/Vibrasender - 82.5 Hz

Yahoo group: MSR2000
Date: 2013-05-26 14:40:18 UTC
From: Mike (WM4B)
Topic: 355 Message: 355

Anyone got a set they can part with?

Mike
WM4B

356. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-27 01:03:57 UTC
From: Eric Grabowski
Topic: 333 Message: 356

Ron, thanks for the suggestion. I considered this when making the drawing but decided against it because I wanted to keep the drawing as simple as possible while still being useful. I take your point though and will reconsider adding the jumpers.

I have not seen a schematic for the backplane board either. However, the Interconnect Chart, which is in the RF-Control Chassis section of the Control and Audio manual, has proven helpful along with the backplane component layout drawing in the same section. That said, I still made a few continuity checks to confirm a trace actually went from point a to point b.

73 and aloha, Eric KH6CQ

--- On Sun, 5/26/13, Ron Wright <mccrpt@...> wrote:

From: Ron Wright <mccrpt@...>
Subject: RE: [MSR2000] Re: Hanging up
To: "MSR2000@yahoogroups.com" <msr2000@yahoogroups.com>
Date: Sunday, May 26, 2013, 4:25 AM

Eric,

Very good diagram, thanks.

Might consider (no matter what we do always something to be added, hi) the jumpers on the boards to make some of the routing. Like on the R1 card 1. JU102 in to force the rcv audio to the PL card and then JU1 not in to use the PL card or 2. leave JU102 out and insert JU1 to bypass the PL card.

So many do not use the Mot PL card due to it requiring a reed and choose something like the Comm Spec TS64WDS board which can easily replace the 2k's PL card.

The Repeater Builders board has some excellent diagrams for the cards. I just have not found a schematic for the back plane, only a jumper list.

Thanks again for the diagram.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: ejgrabowski@...
Date: Sat, 25 May 2013 22:42:51 -0700
Subject: RE: [MSR2000] Re: Hanging up [1 Attachment]

[Attachment(s) from Eric Grabowski included below]

Here's a drawing I made recently while tracing the audio through an MSR 2000.
Hope you find it useful.

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To: "MSR2000@yahoogroups.com" <msr2000@yahoogroups.com>
Date: Saturday, May 25, 2013, 4:37 PM

The rcvr audio path is first from the receiver disc and it goes to the R1 card. If jumper (I forget the jumper nr) is not in then the audio routes to the back plane over to the PL card, the horiz card in upper left. The PL card has PL decoding and a tone filter. The audio then goes back thru the back plane to the R1 card and then to an amp and out to the back plane. If the jumper is in then the audio does not go to the back plane and is jumpered to the last audio amp.

The R1 card also have de-emphasis and sq circuit so one can get flat audio and COS from it.

This audio amp has a gate that I think is gated on/off.

If no rcv audio I would be looking at the R1 card and making sure the audio is being unmuted.

If you need particulars on the above let me know and I'll get out my manuals.

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Ron Wright, N9EE/RBSEEMicro Computer
Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: kc9tsu@ymail.com
Date: Sun, 26 May 2013 01:50:38 +0000
Subject: [MSR2000] Re: Hanging up

I know the xmit isn't the only way, I'm just sayin'...

Yes, I did download a manual. But by "works fine," yes, I mean I can hear the exciter with the HT. However, it's passing controller audio (such as beeps/boops,etc), but no actual "reciever audio." Strange.

--- In MSR2000@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:

>

> Only one
of those wires has anything to do with TX.

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> What do you mean my `works fine'? Can you hear the output of the exciter

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> And again, the XMIT switch is not necessarily the same as keying it from the

> controller… there are many, many ways this station can be keyed.

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> Do you have manuals?

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> From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of

> Vince Waelti, K9TSU

> Sent: Saturday, May 25, 2013 9:07 PM

> To: MSR2000@yahoogroups.com

> Subject: [MSR2000] Re: Hanging up

>

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> Alrighty.. I unplugged the controller and used the "xmit" switch on the

> station control card. Same thing. Click it over, and it stays tx'ing,

> eventho the switch goes back. I do think it's a PA issue, because if I

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> PA, the thing works fine. Ideas?

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> > Ideas? Not really a "problem," but just VERY annoying when you're trying

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> >

>

357. Re: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-27 03:23:24 UTC
From: va3dwi@...
Topic: 333 Message: 357

Make sure that all RF conn

Sent from my BlackBerry 10 smartphone on the Bell network.

From: Vince Waelti, K9TSU
Sent: Saturday, May 25, 2013 21:07
To: MSR2000@yahoogroups.com
Reply To: MSR2000@yahoogroups.com
Subject: [MSR2000] Re: Hanging up

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358. RE: [MSR2000] Re: Hanging up

Yahoo group: MSR2000
Date: 2013-05-27 14:42:29 UTC
From: Ron Wright
Topic: 333 Message: 358

Eric,

On the jumpers well all working on a MSR2000 should get them manuals, RF and card cage/boards as you well know and most of the time one can get the jumpers needed from the schematics. Just finding them on the board takes some time, hi. RB has many of the diagrams and schematics for the 2k. Just some of the more detailed schematics are in small print, taking 8.5x17 page and putting on 8.5x11 or less.

Yes the back plane chart does help, but is mostly made for the 2k being all Motorola. We Hams have to have much more like voice IDs, remote bases, EchoLink, etc so sometimes good to have schematic.

I know you know all this, but good to point out to all.

Again thanks for the diagram. It gives better info for a Ham repeater than Motorola, hi.

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: ejgrabowski@...
Date: Sun, 26 May 2013 18:03:57 -0700
Subject: RE: [MSR2000] Re: Hanging up

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From: kc9tsu@...
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359. MSR-2000 Power Supply - TRN-5119B Schematic

Yahoo group: MSR2000
Date: 2013-07-31 15:54:47 UTC
From: Greg N9CHA
Topic: 359 Message: 359

Might anyone out there have a schematic for the TRN-5119B version aux regulator board for the MSR-2000 TPN-1192A power supply? I have the "A" version schematic in a manual, and found on repeater-builder, however my repeater has the "B" version board.

Greg N9CHA
N9XH/R Balsam Lake, WI
MSR-2000 VHF 147.195

greg@...

360. RE: [MSR2000] MSR-2000 Power Supply - TRN-5119B Schematic

Yahoo group: MSR2000
Date: 2013-07-31 22:38:42 UTC
From: Mike Besemer (WM4B)
Topic: 359 Message: 360

Answered off-list.

Mike
WM4B

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com] On Behalf Of Greg N9CHA
Sent: Wednesday, July 31, 2013 11:55 AM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] MSR-2000 Power Supply - TRN-5119B Schematic

Might anyone out there have a schematic for the TRN-5119B version aux regulator board for the MSR-2000 TPN-1192A power supply? I have the "A" version schematic in a manual, and found on repeater-builder, however my repeater has the "B" version board.

Greg N9CHA
N9XH/R Balsam Lake, WI
MSR-2000 VHF 147.195

greg@...

361. ebay fees

Yahoo group: MSR2000
Date: 2013-09-19 13:01:28 UTC
From: Ron Wright, N9EE
Topic: 361 Message: 361

Last May ebay almost doubled their "final value fee" increasing to 10%. If you sell something on ebay, with listing fees, final value fee and if paid by PayPal (ebay owns PayPal) the fees can easily mount to 15% of the selling price.

I have removed all my items I sell on ebay.

I'll continue to buy on ebay, but know the pricing is partly based on high ebay fees. That is why some list at $0.99, but have shipping at $20. And the final value fee includes the shipping.

73, ron, n9ee/r

362. "And squelch"

Yahoo group: MSR2000
Date: 2013-09-24 19:10:52 UTC
From: <kc9tsu@...>
Topic: 362 Message: 362

Hi all.. using Vibrospond/Vibrosend tone reeds...123hz on my VHF MSR2000 in the ham band. I'm noticing a VERY (about 2 seconds) long squelch crash. If I put the controller in "open" carrier mode and send the repeater ANY PL besides 123, there's no crash, but when I use a 123 PL like I want people to use, it hangs open for a good two seconds, sometimes even more. And yes, the controller is in "tone squelch" mode when testing.

Yes, the squelch is actually cranked all the way closed, so it's not like it's too open or something. I've noticed that when using my Motorola radio, it doesn't have this crash. Could this be because the commercial stuff is sending/looking for a reverse tone burst? Is there some sort of "and squelch" mod I can do so that we can use normal ham radios without hearing this aweful open squelch all the time?

363. Re: [MSR2000] " And squelch"

Yahoo group: MSR2000
Date: 2013-09-24 21:59:26 UTC
From: Mike Morris WA6ILQ
Topic: 362 Message: 363

At 12:10 PM 09/24/2013, you wrote:
>
>Hi all.. using Vibrospond/Vibrosend tone reeds...123hz on my VHF
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the radio sees that as no PL tone

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The carrier squelch is working properly then

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>seconds, sometimes even more. And yes, the controller is in "tone
>squelch" mode when testing.

What you have right now is the tone decoder is forcing the audio gate
open as the decode reed coasts to a stop. Just like it should.

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Change that "squelch" to "carrier squelch" and you will be correct

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doing just as it should.

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>commercial stuff is sending/looking for a reverse tone burst?

Can you say "reverse Burst(tm)" ??? Yes, I knew you could.

>Is there some sort of "and squelch" mod I can do so that we can use
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Yep. Easy. No "mod" needed.

Read The Fine Manual (the MSR2000 Control and Audio manual)

Look up the R1 board by your board's part number and look real
carefully at the tables in that section. AND squelch is a jumper option.

I covered it briefly in the MSR2000 overview article.

1) Go to the www.repeater-builder.com web site.
2) Select Motorola, then MSR2000, then the very first article - the overview one - then scroll down to the section titled "MSR2000 Configuration Notes, etc." and read.

Anyway, implement the AND squelch and your itch should be scratched.

Then at your next local hamfest go track down every YaeComWood rep and complain to them.

Ask them why the designer of EVERY YaeComWood ham radio has no concept of RB or STE despite the fact that it's been around for over 50 years, the patents are expired, and every YaeComWood commercial two way radio uses it.

Adding it to the modern YaeComWood ham radio is really hard: they would have to add a fully debugged and proven programing code snippet to the firmware for the ham radio.

Mike WA6ILQ

364. RE: "And squelch"

Yahoo group: MSR2000
Date: 2013-09-25 16:33:13 UTC
From: <ve2vk@...>
Topic: 362 Message: 364

Moto called it private line (PL) the reverse burst is 120 deg.
Kenwood quiet talk (QT) the burst is 180 deg.
Vertex i don't know but it's 180 deg on some of the newer repeaters it can be programmed either at 120 or 180 deg and works with Moto equipment.
GE Ericsson is 180 deg it used to be 160 deg on Mastr II's and Exec II's.
Customers would buy a Moto repeater and later buy mobiles from other brands and would complain of the crash.
In fact sometimes there would no squelch noise sometimes there would be.

Just my 2 cents.. Bruno VE2VK AC2HZ.

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365. RE: [MSR2000] RE: "And squelch"

Yahoo group: MSR2000
Date: 2013-09-25 17:02:33 UTC
From: Ron Wright
Topic: 362 Message: 365

GE kinda called it "delayed ptt" in that they kept the radio keyed, turned off the tone after the user released the ptt. Not sure if they reversed the tone phase. GE used both reeds and later chips in their Channel Guard (GE's term for tone) in their radios.

I had been told by radio rep, can't remember what company, that the sq burst over long time affected the minds of dispatchers who had to hear hit hundreds of times a day. So one reason for the reverse burst or delayed ptt. I kinda liked the sound on TV shows like Adam 12 and High Way Patrol, hi.

I do control tone encode with the repeater controller with programmable tail timer for tone so tone is turned off before carrier drops. Of course is only useful for users that have tone decode in their rigs. Also they do not have to listen to the IDs and other non-user junk, hi.

73, ron, n9ee/r
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Date: Wed, 25 Sep 2013 09:33:13 -0700
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>brands and would complain of the crash.
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>Just my 2 cents.. Bruno VE2VK AC2HZ.

The first Moto radios that had reverse burst used 180 degrees - they used a center tapped audio transformer with the center tap grounded and picked one side (in phase) or the other side (180 out of phase) with relay contacts.

A later series of radios changed to 120 degrees as the engineers found that a 120 degree shift resulted in a quicker stop of the mechanical decode reed.

GE needed something that their sales people could use to compete with reverse burst, but the patent covered phase reversal in all forms so to avoid patent infringement the GE engineers simply turned the tone off in the transmitter and kept the carrier on for a delay. They also shortened the decode delay in the receiver tone decoder and the combination muted the receiver audio before the carrier dropped.
The Moto field techs called that technique "chicken burst".

In general, you will find on the radios you are liable to find in the second hand market... Moto runs 120 degrees and everybody else runs 180 degrees. The newer Moto radios are programmable for 120 or 180 on a per channel basis.

A while back I did a full article on the history and application of tone squelch systems (one person called it "another brain dump from WA6ILQ") - see here:
<http://www.repeater-builder.com/tech-info/ctcss/ctcss-overview.html>

Mike WA6ILQ

367. RE: [MSR2000] RE: "And squelch"

Yahoo group: MSR2000
Date: 2013-09-26 20:09:18 UTC
From: Ron Wright
Topic: 362 Message: 367

Mike,

Very good article, thanks

73, ron, n9ee/r
Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: wa6ilq1@...
Date: Thu, 26 Sep 2013 09:59:23 -0700
Subject: Re: [MSR2000] RE: "And squelch"

At 09:33 AM 09/25/2013, you wrote:

>

>Moto called it private line (PL) the reverse burst is 120 deg.

>

>Kenwood quiet talk (QT) the burst is 180 deg.

>

>Vertex i don't know but it's 180 deg on some of the newer repeaters

>it can be programmed either at 120 or 180 deg and works with Moto equipment.

>

> GE Ericsson is 180 deg it used to be 160 deg on Mastr II's and Exec II's.

>

>Customers would buy a Moto repeater and later buy mobiles from other

>brands and would complain of the crash.

>

>In fact sometimes there would no squelch noise sometimes there would be.

>

>Just my 2 cents.. Bruno VE2VK AC2HZ.

The first Moto radios that had reverse burst used 180 degrees - they

used a center tapped audio transformer with the center tap grounded

and picked one side (in phase) or the other side (180 out of phase) with relay contacts.

A later series of radios changed to 120 degrees as the engineers found that a 120 degree shift resulted in a quicker stop of the mechanical decode reed.

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A while back I did a full article on the history and application of tone squelch systems (one person called it "another brain dump from WA6ILQ") - see here:

<http://www.repeater-builder.com/tech-info/ctcss/ctcss-overview.html>

Mike WA6ILQ

368. Motorola MR900 Repeater

Yahoo group: MSR2000
Date: 2013-09-29 17:07:10 UTC
From: <motorola_fug99@...>
Topic: 368 Message: 368

Hallo,

I am looking for info on Motorola MR-900 repeater.
Which is programmed with RSS?
I need service manual, parts list and product info.

I need MR-900 BASE STATION RSS PC6915 v1.1.

Thank you

369. This thing changed my life

Yahoo group: MSR2000
Date: 2014-01-29 17:44:19 UTC
From: william474@...
Topic: 369 Message: 369

My family was happy !
;)emedegyhttp://aquagarden.co.il/back.my.page108.php?meha=jzykupj

370. MSR-2000's for sale

Yahoo group: MSR2000
Date: 2014-02-13 23:16:37 UTC
From: <microwavetechnology@...>
Topic: 370 Message: 370

Hi All,

Have quite a few VHF and UHF MSR's in various configurations as well as boxes of individual modules and parts.

We will be at the Idaho State Convention in April and can ship almost anywhere.

BJ
Microwavetechnology@yahoo.com

371. Narrow band uhf

Yahoo group: MSR2000
Date: 2014-04-12 17:08:47 UTC
From: <n2kpk@...>
Topic: 371 Message: 371

I have narrow band kit for uhf msr2000 has anyone ever converted. I am converting for dstar use. Can you let me know how it worked out. I see only 5 filters. Any help is appreciated... Jay n2gq

372. Re: MSR-2000's for sale

Yahoo group: MSR2000
Date: 2014-04-15 12:54:01 UTC
From: <n2kpk@...>
Topic: 370 Message: 372

Hi Do you have a uhf receiver? And can you give me a price?
Jay

373. wtb VHF rx and exciter

Yahoo group: MSR2000
Date: 2014-05-12 02:54:48 UTC
From: n5vgq@...
Topic: 373 Message: 373

I am looking for some VHF receiver and exciter card for use on two meter ham band. Anyone have any spares? Jim

374. UHF Crystaled Ham Band Elements (or just Crystals)

Yahoo group: MSR2000
Date: 2014-05-13 14:34:40 UTC
From: bob.w8mrg@...
Topic: 374 Message: 374

I’m checking to see if anyone has some spare UHF Ham Band Crystaled Elements (or just extra crystals) that they might want to send my way.

I’m looking for a set of UHF Ham Band Crystaled elements for a UHF MSR200 Repeater. I’m flexible in the frequency pair at this point, to see what might be available out there. I’ve got two sets of elements with 461.xxx Mhz. The elements for the repeater are Tx KXN1095A and Rx KXN1112AA units.

I’ll be in Dayton on Friday and Saturday, so keep me in mind. Make me a Deal.

Thanks for any help.

Bob W8MRG
W8MRG@qcen.org

Montgomery Ohio

375. MSR 2000 Tone reeds 141.3

Yahoo group: MSR2000
Date: 2014-08-09 17:28:20 UTC
From: Gene Henderson
Topic: 375 Message: 375

I am in need of the tone reeds for the MSR 2000 141.3 If anyone has these. Please e-mail me at wb9hla@... with cost and shipping.

Thanks Gene WB9HLA

376. Wanted 146.760- VHF Crystaled Ham Band Elements (or just Crystals)

Yahoo group: MSR2000
Date: 2014-09-06 16:46:04 UTC
From: bob.w8mrg@...
Topic: 376 Message: 376

I’m checking to see if anyone has some extra 146.760 Tx – 146.160 Rx Crystaled Elements for a VHF MSR200 Repeater. (Or just the extra crystals) that they might want to sell/trade.

The elements in the repeater now are Tx KXN1088A and Rx KXN1086B units. Thanks for any help.

Bob W8MRG
W8MRG@qcen.org

Montgomery Ohio

377. Re: Wanted 146.760- VHF Crystaled Ham Band Elements (or just Crystals)

Yahoo group: MSR2000
Date: 2014-09-11 16:39:12 UTC
From: mccrpt@...
Topic: 376 Message: 377

I do have set of 16/76 ch ele supplied by ICM, but I need them, sorry. They are in my MSR2000 repeater.

I am writing if you do not find then send the ch ele pair to ICM and let them install xtals and comp. I tried just getting the xtals and installing in the ele, but could not get to move on freq...was about 2 kHz off for both rcv and xmt. So I sent them to ICM and they re-worked the elements and all came back right on freq and working well.

The total cost if you supply ch ele is about $104. This was about 3 years ago. ICM did excellent job.

73, ron, n9ee/r

378. WTB: TRN5119A Auxiliary Regulator Board (Part of TPN1191A Power Supply for MSR2000)

Yahoo group: MSR2000
Date: 2014-10-09 00:33:07 UTC
From: Mike (WM4B)
Topic: 378 Message: 378

The subject line says it all.

73 es tnx,

Mike
WM4B

379. aux. regulator board TRN5119B msr2000

Yahoo group: MSR2000
Date: 2014-10-14 19:17:11 UTC
From: ve3ext@...
Topic: 379 Message: 379

My manual shows the "A"., I have no info on the B !
Here's the problem---while supply is working 9.4 and 14 volts., Q12., just below r15., is running extremely hot and will not survive long.
voltages for q12 read 15.9v,G,Drain 30.3V, Source 15.2Volts- Are these correct?

I'm suspecting a zener has gone?

If someone has a spare board Great !!!
All assistance in pointing me to the fix are appreciated !!

Jerry VE3EXT

380. RE: [MSR2000] aux. regulator board TRN5119B msr2000

Yahoo group: MSR2000
Date: 2014-10-14 22:26:01 UTC
From: Jay
Topic: 379 Message: 380

I have just replaced the power supply (using your favorite one), and fed the 9.4 line with a regulator and a 12v source to satisfy the 9v line. Adjusted the regulator down to 9.4v. Purchased the regulator on ebay. I believe the exciter runs on 9.4v. I have always wanted to eliminate the monster P/S. Although a very good P/S needed the room inside cabinet.

Just a thought.

Jay n2gq

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com]
Sent: Tuesday, October 14, 2014 3:17 PM
To: MSR2000@yahoogroups.com
Subject: [MSR2000] aux. regulator board TRN5119B msr2000

My manual shows the "A"., I have no info on the B !

Here's the problem---while supply is working 9.4 and 14 volts., Q12., just below r15., is running extremely hot and will not survive long.

voltages for q12 read 15.9v,G,Drain 30.3V, Source 15.2Volts- Are these correct?

I'm suspecting a zener has gone?

If someone has a spare board Great !!!

All assistance in pointing me to the fix are appreciated !!

Jerry VE3EXT

381. DSTAR repeate

Yahoo group: MSR2000
Date: 2014-10-22 17:26:12 UTC
From: mccrpt@...
Topic: 381 Message: 381

I normally do not use the yahoo boards for ads, but thought some might like to see our new addition to our products at Micro Computer Concepts with making repeaters from Exec IIs able to do DSTAR.

We can add a Advanced Repeater Systems DSTAR board to an Exec II and it will function as a DSTAR repeater.

Can see at mccrpt.com and select the DSTAR repeater bubble near the top.

If anyone wanting to have the design so you can do your own let me know. It is free, hi.

I have also done with MSR2000. Let me know if you need the info.

73, ron, n9ee/r

382. Re: MSR2000 Cards For Sale

Yahoo group: MSR2000
Date: 2015-02-12 21:13:04 UTC
From: w7gk_1@...
Topic: 175 Message: 382

100.0 Vibrasponder reeds still available?

383. MSR2000 VHF Receive element SCHEMATIC

Yahoo group: MSR2000
Date: 2015-02-16 01:00:08 UTC
From: mistuff@...
Topic: 383 Message: 383

The receive frequency on my repeater has drifted up and adjusting the coil only makes it go up even more. I'm looking for a way to try to pull it back down. I thought a good starting point would be the element schematic. I couldn't find it in the service manual I have. Does anyone have a suggestion on how to pull the freq down? Does anyone have a schematic of the VHF RX element??

384. Re: [MSR2000] MSR2000 VHF Receive element SCHEMATIC

Yahoo group: MSR2000
Date: 2015-02-16 01:03:23 UTC
From: Tony
Topic: 383 Message: 384

Go to www.repeaterbuilder.com □you'll likely find it there.
73, Tony VE3DWI.

Sent from my BlackBerry 10 smartphone on the Bell network.

From: mistuff@... [MSR2000]
Sent: Sunday, February 15, 2015 20:00
To: MSR2000@yahoogroups.com
Reply To: MSR2000@yahoogroups.com
Subject: [MSR2000] MSR2000 VHF Receive element SCHEMATIC

?

The receive frequency on my repeater has drifted up and adjusting the coil only makes it go up even more. I'm looking for a way to try to pull it back down. I thought a good starting point would be the element schematic. I couldn't find it in the service manual I have. Does anyone have a suggestion on how to pull the freq down? Does anyone have a schematic of the VHF RX element??

385. RE: [MSR2000] MSR2000 VHF Receive element SCHEMATIC

Yahoo group: MSR2000
Date: 2015-02-16 03:48:56 UTC
From: Ron Wright
Topic: 383 Message: 385

I ask where did you get the crystal. If have found one cannot simply insert a crystal in a ch ele for MSR2000 and it nets on freq. I send ch ele to ICM and let them crystal and compensate them.

As for schematic for the ch ele I have not seen one. Motorola tends to not publish these schematics stating non-servicable unit...wants you to buy a new one. But maybe some one post on RB board.

73, ron, n9ee/r a know code Extra

Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: MSR2000@yahoogroups.com
Date: Sun, 15 Feb 2015 17:00:08 -0800
Subject: [MSR2000] MSR2000 VHF Receive element SCHEMATIC

The receive frequency on my repeater has drifted up and adjusting the coil only makes it go up even more. I'm looking for a way to try to pull it back down. I thought a good starting point would be the element schematic. I couldn't find it in the service manual I have. Does anyone have a suggestion on how to pull the freq down? Does anyone have a schematic of the VHF RX element??

386. RE: [MSR2000] MSR2000 VHF Receive element SCHEMATIC

Yahoo group: MSR2000
Date: 2015-02-16 12:18:29 UTC
From: Tom
Topic: 383 Message: 386

Depends which direction in frequency you need to go. To lower at 5-10pf ceramic cap in series with the crystal. Also you could modify the coils as well. 73 VE1TA Tom

From: MSR2000@yahoogroups.com [mailto:MSR2000@yahoogroups.com]
Sent: Monday, February 16, 2015 12:19 AM
To: MSR2000@yahoogroups.com
Subject: RE: [MSR2000] MSR2000 VHF Receive element SCHEMATIC

I ask where did you get the crystal. If have found one cannot simply insert a crystal in a ch ele for MSR2000 and it nets on freq. I send ch ele to ICM and let them crystal and compensate them.

As for schematic for the ch ele I have not seen one. Motorola tends to not publish these schematics stating non-servicable unit...wants you to buy a new one. But maybe some one post on RB board.

73, ron, n9ee/r a know code Extra

Ron Wright, N9EE/R

BSEE

Micro Computer Concepts

352-683-4476

mccrpt@...

To: MSR2000@yahoogroups.com
From: MSR2000@yahoogroups.com
Date: Sun, 15 Feb 2015 17:00:08 -0800
Subject: [MSR2000] MSR2000 VHF Receive element SCHEMATIC

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This email has been checked for viruses by Avast antivirus software.
http://www.avast.com

387. TLD2601A amplifier

Yahoo group: MSR2000
Date: 2015-05-03 19:39:46 UTC
From: wekinne@...
Topic: 387 Message: 387

I own a TLD2601A amplifier and intend to use it on our repeater as a 100 watt continuous duty linear amp. My questions are;
1. What is the max input to drive the amp (the repeater is 5 watts out I think I need to attenuate).
2. Is there a model B and is it better?
3. We will eventually go towards the Yaesu digital format (Yaesu System Fusion), is this amp quick enough to support that mode?
4. I intend to buy another to support a second repeater, what is a good price for a good amp?

Thanks in advance,
Billy
KA2BYU

388. RE: [MSR2000] TLD2601A amplifier

Yahoo group: MSR2000
Date: 2015-05-03 20:44:15 UTC
From: Ron Wright
Topic: 387 Message: 388

Billy,

You have a rare PA made to work in the 2m Ham Band.

Typical drive is about 1/2 watt. Yes, you will need to reduce any 5W drive. At 2m some small coax like RG174 might be good for this.

I have paid $50 for good 2601, but just have to look. Most come from Canada for lots of commercial usage in 140-150 MHz range. 95% I would say are 2602s.

As for working with Fusion and DR1x I don't think you will have any problem. Things key up rather quickly since there is no need for any antenna switching.

73, ron, n9ee/r a know code Extra

Ron Wright, N9EE/RBSEEMicro Computer Concepts352-683-4476mccrpt@...

To: MSR2000@yahoogroups.com
From: MSR2000@yahoogroups.com
Date: Sun, 3 May 2015 12:39:46 -0700
Subject: [MSR2000] TLD2601A amplifier

I own a TLD2601A amplifier and intend to use it on our repeater as a 100 watt continuous duty linear amp. My questions are;
1. What is the max input to drive the amp (the repeater is 5 watts out I think I need to attenuate).
2. Is there a model B and is it better?
3. We will eventually go towards the Yaesu digital format (Yaesu System Fusion), is this amp quick enough to support that mode?
4. I intend to buy another to support a second repeater, what is a good price for a good amp?

Thanks in advance,
Billy
KA2BYU

389. Re: [MSR2000] TLD2601A amplifier

Yahoo group: MSR2000
Date: 2015-05-04 20:32:15 UTC
From: Bill
Topic: 387 Message: 389

Thank you, I will proceed now.

Bill
wekinne@...
KA2BYU
305-745-2219

> On May 3, 2015, at 4:44 PM, "Ron Wright mccrpt@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:
>
> Billy,
>
> You have a rare PA made to work in the 2m Ham Band.
>
> Typical drive is about 1/2 watt. Yes, you will need to reduce any 5W drive. At 2m some small coax like RG174 might be good for this.
>
> I have paid $50 for good 2601, but just have to look. Most come from Canada for lots of commercial usage in 140-150 MHz range. 95% I would say are 2602s.
>
> As for working with Fusion and DR1x I don't think you will have any problem. Things key up rather quickly since there is no need for any antenna switching.
>
> 73, ron, n9ee/r a know code Extra
>
> Ron Wright, N9EE/R
> BSEE
> Micro Computer Concepts
> 352-683-4476
> mccrpt@...
>
>
> To: MSR2000@yahoogroups.com
> From: MSR2000@yahoogroups.com
> Date: Sun, 3 May 2015 12:39:46 -0700
> Subject: [MSR2000] TLD2601A amplifier
>
>
>
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amp quick enough to support that mode?
> 4. I intend to buy another to support a second repeater, what is a good price for a good amp?
>
>
> Thanks in advance,
> Billy
> KA2BYU
>
>

390. D-Star for MSR-2000

Yahoo group: MSR2000
Date: 2015-06-10 22:16:47 UTC
From: va3dwi@...
Topic: 390 Message: 390

Ron,
Are you willing to share the information as how to interface a D-Star modem, such as the DVRPTR modem, to an MSR-2000? I believe you made mention of that fact. Thanks in advance.
73, Tony VE3DWI, email va3dwi@gmail.com.

391. Re: [MSR2000] D-Star for MSR-2000

Yahoo group: MSR2000
Date: 2015-06-10 22:41:54 UTC
From: Bill
Topic: 390 Message: 391

Hi,
Sorry I am of no help. I have the new Yaesu dr-1X repeater and I was hoping to get a warm and fuzzy feeling from the group about using the MSR2000 power amp. I have not yet employed the amp and we are currently analog FM on the output. I did receive votes of confidence that the amp is indeed capable of handling digital traffic. So, when and if we go digital (quasi P25 Yaesu flavor) I am hopeful the amp will work.
If you use the amp be sure to reduce the input power to 400 mW, that is what she is looking for to drive her.

Hope this helps,
Bill
wekinne@...
KA2BYU
305-745-2219

> On Jun 10, 2015, at 6:16 PM, "va3dwi@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:
>
> Ron,
>
> Are you willing to share the information as how to interface a D-Star modem, such as the DVRPTR modem, to an MSR-2000? I believe you made mention of that fact. Thanks in advance.
73, Tony VE3DWI, email va3dwi@....
>
>

392. Re: [MSR2000] D-Star for MSR-2000

Yahoo group: MSR2000
Date: 2015-06-11 02:45:42 UTC
From: Tony
Topic: 390 Message: 392

Bill,
The MSR-2000 amp is fully capable of doing digital. I used to service them. Especially the 100 Watt continuous duty amp.☐ It does not care what it amplifies, FM or digital.
My question to Ron pertains to how he interfaced ☐into the modulator. Either via the PL input or otherwise. Also where he took the audio from the discriminator. 73. Tony VE3DWI.?

Sent?from?my?BlackBerry?10?smartphone?on?the?Bell?network.

From: Bill wekinne@... [MSR2000]
Sent: Wednesday, June 10, 2015 18:42
To: MSR2000@yahoogroups.com
Reply To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] D-Star for MSR-2000

?

Hi,
? Sorry I am of no help. ?I have the new Yaesu dr-1X repeater and I was hoping to get a warm and fuzzy feeling from the group about using the MSR2000 power amp. ?I have not yet employed the amp and we are currently analog FM on the output. ?I did receive votes of confidence that the amp is indeed capable of handling digital traffic. ?So, when and if we go digital (quasi P25 Yaesu flavor) I am hopeful the amp will work.
? If you use the amp be sure to reduce the input power to 400 mW, that is what she is looking for to drive her.

Hope this helps,
Bill
wekinne@...
KA2BYU
305-745-2219

On Jun 10, 2015, at 6:16 PM, "va3dwi@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

?

Ron,
Are you willing to share the information as how to interface a D-Star modem, such as the DVRPTR modem, to an MSR-2000? ?I believe you made mention of that fact. ?Thanks in advance.
73, Tony VE3DWI, email va3dwi@gmail.com.

393. Re: D-Star for MSR-2000

Yahoo group: MSR2000
Date: 2015-06-11 04:20:47 UTC
From: Howard Klino
Topic: 390 Message: 393

try this page. it might help you...
http://www.repeater-builder.com/motorola/msr2000/msr2000-dstar.html

Howard K2IMO

394. VHF MSR2000 receiver as a stand-alone?

Yahoo group: MSR2000
Date: 2015-08-31 14:15:33 UTC
From: selkie2@...
Topic: 394 Message: 394

Has anyone boxed a MSR2000 receiver as a stand-alone? I am thinking of using them as remote receivers linked back to the main site. How are they for sensitivity and selectivity at co-located sites? This would be single channel frequency 147MHz. Other contenders are Maxtracs, but they would likely draw more power for all the synthesizer guts not needed.
Thanks,
Duane WA1NRA

395. RE: [MSR2000] VHF MSR2000 receiver as a stand-alone?

Yahoo group: MSR2000
Date: 2015-08-31 15:06:13 UTC
From: mwbesemer@...
Topic: 394 Message: 395
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

396. Re: [MSR2000] VHF MSR2000 receiver as a stand-alone?

Yahoo group: MSR2000
Date: 2015-08-31 15:34:30 UTC
From: Ve3dwi
Topic: 394 Message: 396

Duane,
You can probably make it work but you have to use it with the MSR2000 audio/squelch card and use a separate CTCSS board (if required). The audio coming from the receiver is not de-emphasized and has no squelch circuit so you'll have to take care of that. Worst case you may have to use a band pass, or BPBR, cavity to eliminate desense from the TX. Good luck.
73, Tony VE3DWI.

Sent from my iPad

On 2015-08-31, at 10:15, "selkie2@comcast.net [MSR2000]" <MSR2000@yahoogroups.com> wrote:

> Has anyone boxed a MSR2000 receiver as a stand-alone? I am thinking of using them as remote receivers linked back to the main site. How are they for sensitivity and selectivity at co-located sites? This would be single channel frequency 147MHz. Other contenders are Maxtracs, but they would likely draw more power for all the synthesizer guts not needed.
>
> Thanks,
>
> Duane WA1NRA
>
>

397. Re: [MSR2000] VHF MSR2000 receiver as a stand-alone?

Yahoo group: MSR2000
Date: 2015-08-31 21:20:51 UTC
From: Eric Grabowski
Topic: 394 Message: 397

If you need CTCSS, you might consider using an R2 Audio and Squelch module as it has a PL decoder built in.
73 and aloha, Eric KH6CQ From: "Ve3dwi va3dwi@... [MSR2000]" <MSR2000@yahoogroups.com>
To: "MSR2000@yahoogroups.com" <MSR2000@yahoogroups.com>
Sent: Monday, August 31, 2015 5:34 AM
Subject: Re: [MSR2000] VHF MSR2000 receiver as a stand-alone?

Duane,You can probably make it work but you have to use it with the MSR2000 audio/squelch card and use a separate CTCSS board (if required). The audio coming from the receiver is not de-emphasized and has no squelch circuit so you'll have to take care of that. Worst case you may have to use a band pass, or BPBR, cavity to eliminate desense from the TX.
Good luck.73, Tony VE3DWI.
Sent from my iPad
On 2015-08-31, at 10:15, "selkie2@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

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398. Re: D-Star for MSR-2000

Yahoo group: MSR2000
Date: 2015-09-13 14:56:53 UTC
From: lt_wright_flg@...
Topic: 390 Message: 398

The info for interfacing DSTAR is on the Repeater Builders site.

We used a Advanced Repeater Systems "DSTAR Repeater Controller" (DRC) to condition and detect the DSTAR. I am using this on a VHF MSR2000 and also have one running on a GE Mastr Exec II.

For DSTAR rcv data just come off the MSR2000's rcvr discrementator. But to get good TX data have to drive data directly into Q505 on the exciter (this is VHF exciter).

The DRC also provides a PTT when DSTAR data is detected. It also conditions the data and does about 250ms delay to allow tx to come up before sending the data.

I have not done a DSTAR repeater without this DRC. The DRC does so much for the DSTAR data and is made for a repeater. There are rcv and xmt pots on the board with instructions on setting them. Just make sure you set DSTAR data deviation as read on a service monitor analog meter to about 1.25 kHz dev. If too strong or too low many of the ICOM DSTAR rigs will have problems especially the newer ones like the IC7100 or IC51.

As another posting gave here is link to the RB board write up for MSR2000: Running D-STAR on a Motorola MSR2000 VHF Repeater
http://www.repeater-builder.com/motorola/msr2000/msr2000-dstar.html

http://www.repeater-builder.com/motorola/msr2000/msr2000-dstar.html

Running D-STAR on a Motorola MSR2000 VHF R...
http://www.repeater-builder.com/motorola/msr2000/msr2000-dstar.html Up one level Up to the main Moto index Back to Home Running D-STAR on a Motorola MSR2000 VHF Repeater By Ron Wright N9EE The MSR2000 can be co...

View on www.repeater-builde...
http://www.repeater-builder.com/motorola/msr2000/msr2000-dstar.html
Preview by Yahoo

I can also give for GE Mastr Exec II. Have not done any other radios for DSTAR, but the main issue one encounters is getting the data into the exciter. Some Ham rigs like the FT1500 using the data acc connector work well.

73, ron, n9ee

399. Re: [MSR2000] D-Star for MSR-2000

Yahoo group: MSR2000
Date: 2015-09-13 16:58:43 UTC
From: lt_wright_flg@...
Topic: 390 Message: 399

Bill,

Let us know how the PA works with Fusion. DSTAR is basically FM, FSK, +1 kHz = logic 1 and -1kHz = logic 0 and looks like a square wave with corners rolled off to reduce bandwidth and a regular FM amp will work fine.

Fusion or C4FM is 4 levels of digital, a level for each of the 4 states of logic, send 2 bits at one time. It does look more analog, that is looks to require better shaping.

I am sure the DR1x, just 2 FTM400 mobiles modified for repeater service and the extra features of analog and Fusion operation, uses the stock linear PA bricks for the PA so cannot tell from this what a regular PA like from a MSR2000 would do, but I bet would be ok. Just as another post stated turn down the power to like 0.5W to drive the MSR2000's PA for this is all they need. Would probably have to put an attenuation between the DR1x and PA since low power is 5W.

Some have questioned the delay a PA might introduce to the digital, but I am sure the DR1x's design has this covered. With the DSTAR DRC the delay of data is in the controller for this reason.

Since the DR1x is really a 25 W repeater I can see why some might like to have more power and these older used PAs for $100 or less would be natural addition.

73, ron, n9ee/r

400. Re: [MSR2000] TLD2601A amplifier

Yahoo group: MSR2000
Date: 2015-09-13 17:17:45 UTC
From: wekinne@...
Topic: 387 Message: 400

With my TLD 2602a amp (from Motorola MSR 2000) I intend to use on 147.060 MHz. with the DR-1X repeater. My question is, can I gnd the amp on line (black/white stripe wire) and simply let the repeater output "turn on" the amp? Or should I look to switch that line from the repeater controller (not easy but possible)?

Any additional guidance in the use of this amp would be appreciated.

Thank you for your time,
Bill
wekinne@yahoo.com mailto:wekinne@yahoo.com
KA2BYU
305-745-2219

401. regulator board TRN 5119 AorB

Yahoo group: MSR2000
Date: 2015-11-14 21:27:28 UTC
From: ve3ext@...
Topic: 401 Message: 401

Help please ! need the above regulator board for the MSR2000 power supply.

All help is appreciated !!

tnx/73
Jerry VE3EXT

402. Re: [MSR2000] regulator board TRN 5119 AorB

Yahoo group: MSR2000
Date: 2015-11-15 03:50:25 UTC
From: M M
Topic: 401 Message: 402

At 01:27 PM 11/14/2015, you wrote:
>
>Help please ! need the above regulator board for the MSR2000 power supply.
>
>All help is appreciated !!
>
>tnx/73
>
>Jerry VE3EXT

Is yours repairable?

If so, the theory of operation, schematic and parts list is included here:
<http://www.repeater-builder.com/motorola/msr2000/pdfs/msr2000-standard-power-supply.pdf>

Mike WA6ILQ

403. Re: [MSR2000] regulator board TRN 5119 AorB - forgot to mention...

Yahoo group: MSR2000
Date: 2015-11-15 04:16:21 UTC
From: M M
Topic: 401 Message: 403

```
...it's still available from Moto - but you want to be
sitting down for the price...
...about $250 plus shipping.

Mike WA6ILQ
```

404. Re: [MSR2000] regulator board TRN 5119 AorB

Yahoo group: MSR2000
Date: 2015-11-15 04:30:41 UTC
From: Tony
Topic: 401 Message: 404

Jerry?

I may have one. I'll have a look tomorrow.?

73. Tony VE3DWI?

Sent?from?my?BlackBerry?10 smartphone?on?the?Bell?network.

From: M M wa6ilq@... [MSR2000]
Sent: Saturday, November 14, 2015 22:51
To: MSR2000@yahoogroups.com
Reply To: MSR2000@yahoogroups.com
Subject: Re: [MSR2000] regulator board TRN 5119 AorB

?

At 01:27 PM 11/14/2015, you wrote:
>
>Help please ! need the above regulator board for the MSR2000 power supply.
>
>All help is appreciated !!
>
>tnx/73
>
>Jerry VE3EXT

Is yours repairable?

If so, the theory of operation, schematic and parts list is included here:

Mike WA6ILQ

405. Re: [MSR2000] regulator board TRN 5119 AorB

Yahoo group: MSR2000
Date: 2015-11-15 12:06:05 UTC
From: Jerry Beneteau
Topic: 401 Message: 405

Tony. Much appreciated ,,,

Jerry. Ve3ext

On Sat 14/11/15 23:30 , "Tony va3dwi@... [MSR2000]" MSR2000@yahoogroups.com sent:
> Jerry
> I may have one. I'll have a look tomorrow.
> 73. Tony VE3DWI
>
>
> Sent from my
> BlackBerry 10 smartphone on the Bell network.
>
>
>
> FROM: M M wa6ilq@...
> [MSR2000]SENT: Saturday, November 14, 2015 22:51TO:
> MSR2000@yahoogroups.comREPLY TO: MSR2000@...mSUBJECT: Re:
> [MSR2000] regulator board TRN 5119 AorB
> At 01:27 PM 11/14/2015, you wrote:
> >
> >Help please ! need the above regulator board for the MSR2000 power
> supply.
> >
> >All help is appreciated !!
> >
> >tnx/73
> >
> >Jerry VE3EXT
> Is yours repairable?
> If so, the theory of operation, schematic and parts list is included
> here:
> Mike WA6ILQ
>
>
> Links:
> ------
> [1]
> http://webmail.primus.ca/javascript:top.opencompose(\'va3dwi@...?subj
> ect=Re:%20%5BMSR2000%5D%20regulator%20board%20TRN%205119%20AorB\',\'\',\'\'
> ,\'\')[2]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000@yahoogroups.c
> om?subject=Re:%20%5BMSR2000%5D%20regulator%20board%20TRN%205119%20AorB\',\'
> \',\'\',\'\')[3]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/newtopic;_ylc=X3o

> DMTJmNzdoaXB1BF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOA
> RzZWMDZnRyBHNsawNudHBjBHN0aW1lAzE0NDc1NjE4NDU-[4]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/topics/401;_ylc=X
> 3oDMTMzaTlxY2kzBF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEw
> OARtc2dJZAM0MDQEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQMxNDQ3NTYxODQ1BHRwY0lkAzQwMQ-
> -[5]
> https://groups.yahoo.com/neo/groups/MSR2000/info;_ylc=X3oDMTJmNG5zc2ljBF9TA
> zk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2
> Z2hwBHN0aW1lAzE0NDc1NjE4NDU-[6]
> https://groups.yahoo.com/neo;_ylc=X3oDMTJlZW1pbzZyBF9TAzk3NDc2NTkwBGdycElkA
> zIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTQ0NzU2
> MTg0NQ--[7] https://info.yahoo.com/privacy/us/yahoo/groups/details.html
> [8]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000-unsubscribe@y
> ahoogroups.com?subject=Unsubscribe\',\'\',\'\',\'\')[9]
https://info.yahoo.com/legal/us/yahoo/utos/terms/
>
>

406. Re: [MSR2000] regulator board TRN 5119 AorB

Yahoo group: MSR2000
Date: 2015-11-15 12:24:58 UTC
From: Ron Wright
Topic: 401 Message: 406

Not sure if relevant, but one failure I see in the MSR2000 supply is the 18V zener diode on the low 13.8V output. It is directly across the output. It shorts forcing the supply to shut down and killing the supply.

Simply remove it, easiest way is to cut, and see if supply voltage returns. 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@tampabay.rr.com

On Sunday, November 15, 2015 7:06 AM, "Jerry Beneteau ve3ext@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

  Tony. Much appreciated ,,,

Jerry. Ve3ext

On Sat 14/11/15 23:30 , "Tony va3dwi@... [MSR2000]" MSR2000@yahoogroups.com sent:
> Jerry
> I may have one. I'll have a look tomorrow.
> 73. Tony VE3DWI
>
>
> Sent from my
> BlackBerry 10 smartphone on the Bell network.
>
>
>
> FROM: M M wa6ilq@...
> [MSR2000]SENT: Saturday, November 14, 2015 22:51TO:
> MSR2000@yahoogroups.comREPLY TO: MSR2000@yahoogroups.comSUBJECT: Re:
> [MSR2000] regulator board TRN 5119 AorB
> At 01:27 PM 11/14/2015, you wrote:
> >
> >Help please ! need the above regulator board for the MSR2000 power
> supply.
> >
> >All help is appreciated !!
> >
> >tnx/73
> >
> >Jerry VE3EXT
> Is yours repairable?
> If so, the theory of operation, schematic and parts list is included
> here:
> Mike WA6ILQ
>

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>
> Links:
> ------
> [1]
> http://webmail.primus.ca/javascript:top.opencompose(\'va3dwi@...?subj
> ect=Re:%20%5BMSR2000%5D%20regulator%20board%20TRN%205119%20AorB\',\'\',\'\'
> ,\'\')[2]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000@yahoogroups.c
> om?subject=Re:%20%5BMSR2000%5D%20regulator%20board%20TRN%205119%20AorB\',\'
> \',\'\',\'\')[3]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/newtopic;_ylc=X3o
> DMTJmNzdoaXB1BF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOA
> RzZWMDZnRyBHNsawNudHBjBHN0aW1lAzE0NDc1NjE4NDU-[4]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/topics/401;_ylc=X
> 3oDMTMzaTlxY2kzBF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEw
> OARtc2dJZAM0MDQEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQMxNDQ3NTYxODQ1BHRwY0lkAzQwMQ-
> -[5]
> https://groups.yahoo.com/neo/groups/MSR2000/info;_ylc=X3oDMTJmNG5zc2ljBF9TA
> zk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2
> Z2hwBHN0aW1lAzE0NDc1NjE4NDU-[6]
> https://groups.yahoo.com/neo;_ylc=X3oDMTJlZW1pbzZyBF9TAzk3NDc2NTkwBGdycElkA
> zIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTQ0NzU2
> MTg0NQ--[7] https://info.yahoo.com/privacy/us/yahoo/groups/details.html
> [8]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000-unsubscribe@y
> ahoogroups.com?subject=Unsubscribe\',\'\',\'\',\'\')[9]
https://info.yahoo.com/legal/us/yahoo/utos/terms/
>
>
```

407. Re: [MSR2000] regulator board TRN 5119 AorB - forgot to mention...

Yahoo group: MSR2000
Date: 2015-11-15 12:26:53 UTC
From: Ron Wright
Topic: 401 Message: 407

Yep if getting from Mot it will cost. Can buy the whole supply on ebay for $100.
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Saturday, November 14, 2015 11:16 PM, "M M wa6ilq@... [MSR2000]"
<MSR2000@yahoogroups.com> wrote:

  ...it's still available from Moto - but you want to be
sitting down for the price...
...about $250 plus shipping.

Mike WA6ILQ

408. New Member

Yahoo group: MSR2000
Date: 2016-03-24 00:48:55 UTC
From: Wayne Hoskins
Topic: 408 Message: 408

Hi all,

I just joined up today, been meaning to for a while. I'm the license trustee for K5TYR, the Tyler TX radio club. We've got three MSR2000s that I maintain, two VHF and one UHF, running on RLC Club Deluxes.

All three of ours are running on external 12 volts, with a 9.4 volt regulator circuit built onto a gutted card, an F1 I think, that I put in the DC Transfer slot. It's a straightforward LM317 circuit straight out of the datasheet, but I use an LM350 to have some more current headroom. Works great, I'd be happy to post the details if anyone's interested.

One radio has the regulator circuit and some Com Spec PL boards, two decoders in parallel and one encoder, on a custom board in the PL slot. That machine we're slowly transitioning the uplink PL on, so it can respond to both of them. Happy to share that as well (again it's pretty straightforward). I'm hoping soon to finish that transition but it's the main Skywarn repeater here so it'll be after storm season probably before we cut off the old PL.

I've been thinking of figuring out an external power control circuit that would allow the controller to roll back the PA to conserve battery during an outage or to avoid meltdown if it's been keyed for like an hour. If anybody's already done something like that, I'd love to not reinvent the wheel.

It's been nearly two years that I've been working on these, and so far I'm liking them, they seem to be rugged, reliable radios.

Wayne WM5Q

409. Re: [MSR2000] New Member

Yahoo group: MSR2000
Date: 2016-03-24 01:21:23 UTC
From: Ron Wright
Topic: 408 Message: 409

Wayne,
Welcome to the group. Not a lot of activity here, but some good Hams with knowledge on the MSR2000.
On the power supply I prefer the stock supply and can get with battery input if needed.
But you could use the regulator if you like driven with something else like an efficient switcher. But getting the 9.6VDC is not that hard. Even a LM7808 biased up will work.
I like most of what is in the stock radio including the R1 card that pretty good sq, demphasis circuit and audio amp for local spkr. I also use the stock PL card, but know getting reed is not always easy. The Comm Spec TS64WDS is excellent decoder/encoder so is easy to marry with the radio. Some prefer the SQ Gate card for COS so might consider it.

But of course we Hams want more in a repeater than the commercial guys that just want to get input and key radio. So we add a controller for bells and whistles to make it look smarter than it is. Does not improve performance, but makes us feel better, hi.
The MSR2000 is very simple radio that can take a lot if you have the cont duty version, but I have run the intermit duty just at reduced power.
As for remote or automatic power control it should be simple since it is controlled by a pot. Adding another pot and switching in and out should be easy. Essentially it controls the voltage to the final of the exciter.
Well good luck with your repeaters.
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Wednesday, March 23, 2016 8:48 PM, "Wayne Hoskins wayne@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

  Hi all,

I just joined up today, been meaning to for a while. I'm the license trustee for K5TYR, the Tyler TX radio club. We've got three MSR2000s that I maintain, two VHF and one UHF, running on RLC Club Deluxes.

All three of ours are running on external 12 volts, with a 9.4 volt regulator circuit built onto a gutted card, an F1 I think, that I put in the DC Transfer slot. It's a straightforward LM317 circuit straight out of the datasheet, but I use an LM350 to have some more current headroom. Works great, I'd be happy to post the details if anyone's interested.

One radio has the regulator circuit and some Com Spec PL boards, two decoders in parallel and one encoder, on a custom board in the PL slot. That machine we're slowly transitioning the uplink PL on, so it can respond to both of them. Happy to share that as well (again it's pretty straightforward). I'm hoping soon to finish that transition but it's the main Skywarn repeater here so it'll be after storm season probably before we cut off the old PL.

I've been thinking of figuring out an external power control circuit that would allow the controller to roll back the PA to conserve battery during an outage or to avoid meltdown if it's been keyed for like an hour. If anybody's already done something like that, I'd love to not reinvent the wheel.

It's been nearly two years that I've been working on these, and so far I'm liking them, they seem to be rugged, reliable radios.

Wayne WM5Q

410. Re: [MSR2000] New Member

Yahoo group: MSR2000
Date: 2016-03-24 02:42:18 UTC
From: Wayne Hoskins
Topic: 408 Message: 410

Thanks Ron,

Ours use the squelch circuit on the R1 card (though I've considered building a bi-level squelch circuit to put in the F2 slot), and with the exception of the VHF radio with the two PL decoders they're all using the stock duplex PL card with the reeds.

I've started using discriminator audio on them, at the PL filter output, though I found the level to be really low - I used a spare 8 db amp on the Station Control card (the R2 discriminator amp) after the PL filter and that brought it up nicely to a level the controller was happy with.

I figure a relay or two and a couple of extra pots or resistors connected to the Power Control board ought to do the trick for external power control. The UHF and one of the VHFs we have are the intermittent duty version. We actually melted down the UHF amp the other evening when a couple of guys had an hour and a half long conversation. I had it running at 70 watts, which I had intended to turn down but hadn't. The driver output filter network fell off the substrate to the bottom of the amp chassis. I resoldered them last night and put it back in today - and cut the power back to 40 watts - and so far it's working. I'm planning to try to replace that amp in the next week or two, there's a few more UHF MSRs where this one came from, and this amp had "Spare" written on it and maybe there's a reason it was "spare". Fortunately it's still capable of the same output as before, so it looks like we didn't burn up any of the transistors in the process.

Funny, I've been a ham since '93, upgraded to Extra in '04, and only the last couple of years I'm actually using the Technician part of my license, tinkering with repeaters and packet and everything.

Wayne WM5Q

On Mar 23, 2016, at 8:21 PM, "Ron Wright lt_wright_flg@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

> Wayne,
>
> Welcome to the group. Not a lot of activity here, but some good Hams with knowledge on the MSR2000.
>
> On the power supply I prefer the stock supply and can get with battery input if needed. But you could use the regulator if you like driven with something else like an efficient switcher. But getting the 9.6VDC is not that hard. Even a LM7808 biased up will work.
>
> I like most of what is in the stock radio including the R1 card that pretty good sq, demphasis circuit and audio amp for local spkr. I also use the stock PL card, but know getting reed is not always easy. The Comm Spec TS64WDS is excellent decoder/encoder so is easy to marry with the radio. Some prefer the SQ Gate card for COS so might consider it.
>
> But of course we Hams want more in a repeater than the commercial guys that just want to

get input and key radio. So we add a controller for bells and whistles to make it look smarter than it is. Does not improve performance, but makes us feel better, hi.
>
> The MSR2000 is very simple radio that can take a lot if you have the cont duty version, but I have run the intermit duty just at reduced power.
>
> As for remote or automatic power control it should be simple since it is controlled by a pot. Adding another pot and switching in and out should be easy. Essentially it controls the voltage to the final of the exciter.
>
> Well good luck with your repeaters.
>
> 73, ron, n9ee/r
>
> Ron Wright, N9EE/R
> BSEE
> Micro Computer Concepts
> Spring Hill, Florida
> 146.64 repeater, 1100 ft HAAT
> 352-683-4476
> also mccrpt@...
>
>
> On Wednesday, March 23, 2016 8:48 PM, "Wayne Hoskins wayne@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:
>
>
>
> Hi all,
>
> I just joined up today, been meaning to for a while. I'm the license trustee for K5TYR, the Tyler TX radio club. We've got three MSR2000s that I maintain, two VHF and one UHF, running on RLC Club Deluxes.
>
> All three of ours are running on external 12 volts, with a 9.4 volt regulator circuit built onto a gutted card, an F1 I think, that I put in the DC Transfer slot. It's a straightforward LM317 circuit straight out of the datasheet, but I use an LM350 to have some more current headroom. Works great, I'd be happy to post the details if anyone's interested.
>
> One radio has the regulator circuit and some Com Spec PL boards, two decoders in parallel and one encoder, on a custom board in the PL slot. That machine we're slowly transitioning the uplink PL on, so it can respond to both of them. Happy to share that as well (again it's pretty straightforward). I'm hoping soon to finish that transition but it's the main Skywarn repeater here so it'll be after storm season probably before we cut off the old PL.
>
> I've been thinking of figuring out an external power control circuit that would allow the controller to roll back the PA to conserve battery during an outage or to avoid meltdown if it's been keyed for like an hour. If anybody's already done something like that, I'd love to not reinvent the wheel.
>

> It's been nearly two years that I've been working on these, and so far I'm liking them, they seem to be rugged, reliable radios.
>
> Wayne WM5Q
>
>
>

411. Re: regulator board TRN 5119 AorB

Yahoo group: MSR2000
Date: 2016-04-19 01:58:31 UTC
From: ssmoody@...
Topic: 401 Message: 411

Jerry,

Did you happen to find the regulator board you where looking for?

We have a few MSR-2000's here, I could cannibalize one for you if you need.

Scott in Dryden, VA3EXT

412. Re: [MSR2000] Re: regulator board TRN 5119 AorB

Yahoo group: MSR2000
Date: 2016-04-19 11:07:02 UTC
From: Ron Wright
Topic: 401 Message: 412

I've had only one issue with the MSR2000 power supply and that is with the 18V zener on the low current output. It shorts and kills the supply. I remove and all comes back to normal. I do replace it with 1N4747.

Not sure if this will correct your problem, but when I see my low current go down the zener is the first thing I check.
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Monday, April 18, 2016 9:58 PM, "ssmoody@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

  Jerry,

Did you happen to find the regulator board you where looking for?
We have a few MSR-2000's here, I could cannibalize one for you if you need.
Scott in Dryden, VA3EXT

413. Re: [MSR2000] Re: regulator board TRN 5119 AorB

Yahoo group: MSR2000
Date: 2016-04-20 01:52:22 UTC
From: Jerry Beneteau
Topic: 401 Message: 413

Scott good to hear from you!!

I'm all set., was able to repair a couple

tnx/73
Jerry VE3EXT
LaSalle., near windsor

414. Channel Elements

Yahoo group: MSR2000
Date: 2016-04-26 02:50:52 UTC
From: Wayne Hoskins
Topic: 293 Message: 414

Looking for some channel elements, wonder if you guys have any before I call up ICM:

144.39 Micor T/R (or I could be convinced to use a Mitrek)

444.400 R / 449.400 T Mitrek

Two sets for a temporary link radio pair, UHF, same or two channels - 440-441.5 / 445-446.5 fits in the local band plan. Mitrek.

I've got a bag of commercial band rocks if anyone's interested in any of those.

Wayne WM5Q

415. Msr2000 100 watt PA

Yahoo group: MSR2000
Date: 2016-06-19 12:59:24 UTC
From: ve3bv.ca@...
Topic: 415 Message: 415

Hi folks
Just joined the group and already I have a question. I'm a ex Motorola systems guy and have built numerous ham repeaters so I'm pretty familiar with the product.
Here's my dilemma, for 30 years I looked after the repeater network for the local ham club and had access to spares and test jigs. I have since moved and passed the torch to someone else with a limited RF background. In short they lost the PA and drove 2 hours to bring me up the repeater to look at . I found the PA was drawing excessive current and loading the power supply to the point of collapse .
I had in my junk box a intermittent duty unit ,so I changed the 9 volt control wire on the molex , set for 30 Watts and all's well.
In the past I've repaired the PA and all's well using the MSR .
I now don't have the MSR and I've done it in the past using a jig that I found on line to fool the control voltage and keying voltage ,with 1/2 watt drive. Anyone remember?
I've been able to find the issue with the PA and pulled parts out of a micor I had in the Junk box ,now I need to test it.
Thanks
Bruce
Ve3bv

416. Re: [MSR2000] Msr2000 100 watt PA

Yahoo group: MSR2000
Date: 2016-06-20 02:52:38 UTC
From: Ron Wright
Topic: 415 Message: 416

The MSR2000's PA requires about 1/2 W drive, no matter the version of the PA. The power control voltage from the PA actually feeds back to the exciter and controls it's drive output unlike Micor where the PA's front end driver's voltage is varied to control output. If have MSR2000's exciter stand alone without PA then the exciter's output stage will not work due to no voltage on it. Must provide thru some other source.

I find it is cheaper to get a MSR2000 PA on ebay than go out and buy replacement components. Of course there are some cheaper components and if have from Micor why not repair it.
73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Sunday, June 19, 2016 8:59 AM, "ve3bv.ca@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

Hi folksJust joined the group and already I have a question. I'm a ex Motorola systems guy and have built numerous ham repeaters so I'm pretty familiar with the product. Here's my dilemma, for 30 years I looked after the repeater network for the local ham club and had access to spares and test jigs. I have since moved and passed the torch to someone else with a limited RF background. In short they lost the PA and drove 2 hours to bring me up the repeater to look at . I found the PA was drawing excessive current and loading the power supply to the point of collapse .I had in my junk box a intermittent duty unit ,so I changed the 9 volt control wire on the molex , set for 30 Watts and all's well.In the past I've repaired the PA and all's well using the MSR .I now don't have the MSR and I've done it in the past using a jig that I found on line to fool the control voltage and keying voltage ,with 1/2 watt drive. Anyone remember?I've been able to find the issue with the PA and pulled parts out of a micor I had in the Junk box ,now I need to test it.ThanksBruceVe3bv

417. Re: [MSR2000] Msr2000 100 watt PA

Yahoo group: MSR2000
Date: 2016-06-20 03:14:35 UTC
From: Bruce Clements
Topic: 415 Message: 417

I think I may have found the answer.
I'm aware the loop back of the control voltage which drives the final on the exciter, but I forgot the switched TX 9 volt that comes from the mother board to drive the power control module for the PA also the keyed A- line.
I'm going to fool the 9 volt keyed A+ with a separate source and ground the keyed A- ,hit it with 1/2 a watt and go for it.
Bruce
Ve3bv

"Ron Wright lt_wright_flg@yahoo.com [MSR2000]" <MSR2000@yahoogroups.com> wrote:

>
>
>The MSR2000's PA requires about 1/2 W drive, no matter the version of the PA. The power control voltage from the PA actually feeds back to the exciter and controls it's drive output unlike Micor where the PA's front end driver's voltage is varied to control output. If have MSR2000's exciter stand alone without PA then the exciter's output stage will not work due to no voltage on it. Must provide thru some other source.
>
>
>I find it is cheaper to get a MSR2000 PA on ebay than go out and buy replacement components. Of course there are some cheaper components and if have from Micor why not repair it.
>
>
>
>73, ron, n9ee/r
>
>Ron Wright, N9EE/R
>
>BSEE
>
>Micro Computer Concepts
>
>Spring Hill, Florida
>146.64 repeater, 1100 ft HAAT
>
>352-683-4476
>
>also mccrpt@tampabay.rr.com
>
>
>
>On Sunday, June 19, 2016 8:59 AM, "ve3bv.ca@gmail.com [MSR2000]"
<MSR2000@yahoogroups.com> wrote:

>
>
>
>
>
>Hi folks
>
>Just joined the group and already I have a question. I'm a ex Motorola systems guy and have built numerous ham repeaters so I'm pretty familiar with the product.
>
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>
>I had in my junk box a intermittent duty unit ,so I changed the 9 volt control wire on the molex , set for 30 Watts and all's well.
>
>In the past I've repaired the PA and all's well using the MSR .
>
>I now don't have the MSR and I've done it in the past using a jig that I found on line to fool the control voltage and keying voltage ,with 1/2 watt drive. Anyone remember?
>
>I've been able to find the issue with the PA and pulled parts out of a micor I had in the Junk box ,now I need to test it.
>
>Thanks
>
>Bruce
>
>Ve3bv
>
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>
>
>
><!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial; margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%; font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration: none; } #ygrp-sponsor #ygrp-lc { font-family: Arial; } #ygrp-sponsor #ygrp-lc #hd { margin: 10px 0px; font-weight: 700; font-size: 78%; line-height: 122%; } #ygrp-sponsor #ygrp-lc .ad { margin-bottom: 10px; padding: 0 0; } #actions { font-family: Verdana; font-size: 11px; padding: 10px 0; } #activity { background-color: #e0ecee; float: left; font-family: Verdana; font-size: 10px; padding: 10px; } #activity span { font-weight: 700; } #activity span:first-child { text-transform: uppercase; } #activity span a { color: #5085b6; text-decoration: none; } #activity span span { color: #ff7900; } #activity span .underline { text-decoration: underline; } .attach { clear: both; display: table; font-family: Arial; font-size: 12px;

padding: 10px 0; width: 400px; } .attach div a { text-decoration: none; } .attach img { border: none; padding-right: 5px; } .attach label { display: block; margin-bottom: 5px; } .attach label a { text-decoration: none; } blockquote { margin: 0 0 0 4px; } .bold { font-family: Arial; font-size: 13px; font-weight: 700; } .bold a { text-decoration: none; } dd.last p a { font-family: Verdana; font-weight: 700; } dd.last p span { margin-right: 10px; font-family: Verdana; font-weight: 700; } dd.last p span.yshortcuts { margin-right: 0; } div.attach-table div div a { text-decoration: none; } div.attach-table { width: 400px; } div.file-title a, div.file-title a:active, div.file-title a:hover, div.file-title a:visited { text-decoration: none; } div.photo-title a, div.photo-title a:active, div.photo-title a:hover, div.photo-title a:visited { text-decoration: none; } div#ygrp-mlmsg #ygrp-msg p a span.yshortcuts { font-family: Verdana; font-size: 10px; font-weight: normal; } .green { color: #628c2a; } .MsoNormal { margin: 0 0 0 0; } o { font-size: 0; } #photos div { float: left; width: 72px; } #photos div div { border: 1px solid #666666; height: 62px; overflow: hidden; width: 62px; } #photos div label { color: #666666; font-size: 10px; overflow: hidden; text-align: center; white-space: nowrap; width: 64px; } #reco-category { font-size: 77%; } #reco-desc { font-size: 77%; } .replbq { margin: 4px; } #ygrp-actbar div a:first-child { /* border-right: 0px solid #000;*/ margin-right: 2px; padding-right: 5px; } #ygrp-mlmsg { font-size: 13px; font-family: Arial, helvetica,clean, sans-serif; *font-size: small; *font: x-small; } #ygrp-mlmsg table { font-size: inherit; font: 100%; } #ygrp-mlmsg select, input, textarea { font: 99% Arial, Helvetica, clean, sans-serif; } #ygrp-mlmsg pre, code { font:115% monospace; *font-size:100%; } #ygrp-mlmsg * { line-height: 1.22em; } #ygrp-mlmsg #logo { padding-bottom: 10px; } #ygrp-msg p a { font-family: Verdana; } #ygrp-msg p#attach-count span { color: #1E66AE; font-weight: 700; } #ygrp-reco #reco-head { color: #ff7900; font-weight: 700; } #ygrp-reco { margin-bottom: 20px; padding: 0px; } #ygrp-sponsor #ov li a { font-size: 130%; text-decoration: none; } #ygrp-sponsor #ov li { font-size: 77%; list-style-type: square; padding: 6px 0; } #ygrp-sponsor #ov ul { margin: 0; padding: 0 0 0 8px; } #ygrp-text { font-family: Georgia; } #ygrp-text p { margin: 0 0 1em 0; } #ygrp-text tt { font-size: 120%; } #ygrp-vital ul li:last-child { border-right: none !important; } -->

418. Re: [MSR2000] Msr2000 100 watt PA

Yahoo group: MSR2000
Date: 2016-06-20 14:02:48 UTC
From: ve3bv.ca@...
Topic: 415 Message: 418

ok guys ....REAL BIG BRAIN FART!!!!!!
decided to grab the second PA I was fixing and see what was going on. I usually don't give up so easy but I put the other one on and took PIN 4 to A- and BINGO 100 watts :) .
It seems on the other amp the Keyed A- does nothing ,so got to follow that stage.
tnx guys.. keep you posted
bruce
ve3bv.
repeater here in the bush 53.110 /52.110
echolink on the repeater 590811 ve3bv-r

419. Re: [MSR2000] Msr2000 100 watt PA

Yahoo group: MSR2000
Date: 2016-06-20 14:52:52 UTC
From: Jerry Beneteau
Topic: 415 Message: 419

On Mon 20/06/16 10:02 , "ve3bv.ca@... [MSR2000]" MSR2000@yahoogroups.com sent:
> ok guys ....REAL BIG BRAIN FART!!!!!!
>
> decided to grab the second PA I was fixing and see what was going
> on. I usually don't give up so easy but I put the other one on
> and took PIN 4 to A- and BINGO 100 watts :) .
>
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> tnx guys.. keep you posted
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> bruce
>
> ve3bv.
>
> repeater here in the bush 53.110 /52.110
>
> echolink on the repeater 590811 ve3bv-r
>
>
> Links:
> ------
> [1]
> http://webmail.primus.ca/javascript:top.opencompose(\'ve3bv.ca@...?su
> bject=Re:%20%5BMSR2000%5D%20Msr2000%20100%20watt%20PA\',\'\',\'\',\'\')[2]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000@yahoogroups.c
> om?subject=Re:%20%5BMSR2000%5D%20Msr2000%20100%20watt%20PA\',\'\',\'\',\'\'
>)[3]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/newtopic;_ylc=X3o
> DMTJmYnE1cWE5BF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOA
> RzZWMDZnRyBHNsawNudHBjBHN0aW1lAzE0NjY0MzEzNjk-[4]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/topics/415;_ylc=X
> 3oDMTMzaGtyamU0BF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEw
> OARtc2dJZAM0MTgEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQMxNDY2NDMxMzY5BHRwY0lkAzQxNQ-
> -[5]
> https://groups.yahoo.com/neo/groups/MSR2000/info;_ylc=X3oDMTJmNDRmMGVkBF9TA
> zk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2
> Z2hwBHN0aW1lAzE0NjY0MzEzNjk-[6]
> https://groups.yahoo.com/neo;_ylc=X3oDMTJlZ3NnOGxtBF9TAzk3NDc2NTkwBGdycElkA
> zIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTQ2NjQz
> MTM2OQ--[7] https://info.yahoo.com/privacy/us/yahoo/groups/details.html
> [8]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000-unsubscribe@y
> ahoogroups.com?subject=Unsubscribe\',\'\',\'\',\'\')[9]

https://info.yahoo.com/legal/us/yahoo/utos/terms/
>
>

420. Re: [MSR2000] Msr2000 100 watt PA

Yahoo group: MSR2000
Date: 2016-06-20 14:52:50 UTC
From: Jerry Beneteau
Topic: 415 Message: 420

On Mon 20/06/16 10:02 , "ve3bv.ca@... [MSR2000]" MSR2000@yahoogroups.com sent:
> ok guys ....REAL BIG BRAIN FART!!!!!!
>
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>
> It seems on the other amp the Keyed A- does nothing ,so got to
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> bruce
>
> ve3bv.
>
> repeater here in the bush 53.110 /52.110
>
> echolink on the repeater 590811 ve3bv-r
>
>
> Links:
> ------
> [1]
> http://webmail.primus.ca/javascript:top.opencompose(\'ve3bv.ca@...?su
> bject=Re:%20%5BMSR2000%5D%20Msr2000%20100%20watt%20PA\',\'\',\'\',\'\')[2]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000@yahoogroups.c
> om?subject=Re:%20%5BMSR2000%5D%20Msr2000%20100%20watt%20PA\',\'\',\'\',\'\'
>)[3]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/newtopic;_ylc=X3o
> DMTJmYnE1cWE5BF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOA
> RzZWMDZnRyBHNsawNudHBjBHN0aW1lAzE0NjY0MzEzNjk-[4]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/topics/415;_ylc=X
> 3oDMTMzaGtyamU0BF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEw
> OARtc2dJZAM0MTgEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQMxNDY2NDMxMzY5BHRwY0lkAzQxNQ-
> -[5]
> https://groups.yahoo.com/neo/groups/MSR2000/info;_ylc=X3oDMTJmNDRmMGVkBF9TA
> zk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2
> Z2hwBHN0aW1lAzE0NjY0MzEzNjk-[6]
> https://groups.yahoo.com/neo;_ylc=X3oDMTJlZ3NnOGxtBF9TAzk3NDc2NTkwBGdycElkA
> zIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTQ2NjQz
> MTM2OQ--[7] https://info.yahoo.com/privacy/us/yahoo/groups/details.html
> [8]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000-unsubscribe@y
> ahoogroups.com?subject=Unsubscribe\',\'\',\'\',\'\')[9]

https://info.yahoo.com/legal/us/yahoo/utos/terms/
>
>

421. FS or trade: 100w VHF MSR2000 station

Yahoo group: MSR2000
Date: 2016-08-28 19:44:20 UTC
From: M M
Topic: 421 Message: 421

This might be a duplicate message - I first posted
this 5 days ago and have not seen it... if you are
seeing it twice I apologize...

Mike WA6ILQ
- - - - -
FS or trade: 100w VHF PL MSR2000 station.

I have available for sale or trade a retired 100w VHF PL
MSR2000 station, model number C73KSB3196B.
It's the rather rare open rack version, no cabinet.

Its a continuous duty station that has all the needed cards
for in-cabinet repeat (i.e. it includes a squelch gate card).

Modification for use with an external controller is not difficult
and is well documented.

There are no channel elements with it - it will require one each
of a KXN1086 (receive) and a KXN1088 (transmit).

It's heavy, I'd prefer local pickup, shipping will require at a minimum
vertical 2x4s mounted onto a small pallet, drywall screws holding
the unit to the 2x4s, then plastic wrap for protection. A full wooden
box would be better, but would add yet more weight and therefore
even higher shipping cost.

Photos available. Presently located in Glendora, California

Mike WA6ILQ

422. Re: FS or trade: 100w VHF MSR2000 station

Yahoo group: MSR2000
Date: 2016-08-28 21:16:42 UTC
From: n5vgq@...
Topic: 421 Message: 422

You did not say what you were asking or what you wanted to trade for. I assume you are talking about a 19 inch rack mount repeater, not just one with the case removed. Jim

423. Re: [MSR2000] Re: FS or trade: 100w VHF MSR2000 station

Yahoo group: MSR2000
Date: 2016-08-28 23:12:37 UTC
From: M M
Topic: 421 Message: 423

At 02:16 PM 8/28/2016, n5vgq@... wrote:
>
>You did not say what you were asking or what you wanted to trade for.
>I assume you are talking about a 19 inch rack mount repeater, not just
>one with the case removed. Jim

It's the rather rare unit that was designed to mount in an open
frame 19 inch rack.

And I'm pretty open on the trade or the sale price...

My main reason for advertising it was to help out someone else
that might need MSR parts, or even an entire station. No sense
in carting this beast directly to e-waste.

Mike WA6ILQ

424. Re: [MSR2000] Re: FS or trade: 100w VHF MSR2000 station

Yahoo group: MSR2000
Date: 2016-08-29 01:12:13 UTC
From: Ron Wright
Topic: 421 Message: 424

The standard MSR2000 is 19 inch rack mount even when in its normal cabinet. One can remove and put in taller cabinet. I have not seen a MSR2000 that was different, just some come in the standard no rear door cabinets and some that need more space like for holding VHF duplexer put them in larger cabinets.

They are heavy, 120 lb, mainly due to power supply. Good strong hardware is most often heavy, hi.
For info the normal US VHF (150 MHz) split was made to go down to 146 although PAs did not, but would work there. So exciter and rcvr most often is made for an works in the ham band.
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Sunday, August 28, 2016 7:12 PM, "M M wa6ilq@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

  At 02:16 PM 8/28/2016, n5vgq@... wrote:
>
>You did not say what you were asking or what you wanted to trade for.
>I assume you are talking about a 19 inch rack mount repeater, not just
>one with the case removed. Jim

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in carting this beast directly to e-waste.

Mike WA6ILQ

425. Re: [MSR2000] Re: FS or trade: 100w VHF MSR2000 station

Yahoo group: MSR2000
Date: 2016-08-29 01:43:38 UTC
From: n5vgq@...
Topic: 421 Message: 425

Ok Mike you did not say in your first post about 19 inch rack mount. Some folks seem to think you can just pull one out of a case and mount it in any cabinet with 19" rails. The power supply will not mount to the rails without optional brackets.
It is good you are offering it to the group first. I still have some in service for the hams here.

426. Re: [MSR2000] Re: FS or trade: 100w VHF MSR2000 station

Yahoo group: MSR2000
Date: 2016-08-29 15:13:37 UTC
From: M M
Topic: 421 Message: 426

At 06:43 PM 8/28/2016, n5vgq@... wrote:
>
>Ok Mike you did not say in your first post about 19 inch rack mount.

The first posting said "It's the rather rare open rack version, no cabinet."

>Some folks seem to think you can just pull one out of a case and mount
>it in any cabinet with 19" rails.

Same thing goes with the MSF5000.

>The power supply will not mount to the rails without optional brackets.

Or custom brackets, which I've seen.

>It is good you are offering it to the group first. I still have some
>in service for the hams here.

Seed some spare parts?

Mike WA6ILQ

427. Lightning Repair

Yahoo group: MSR2000
Date: 2016-11-25 20:04:56 UTC
From: Wayne Hoskins
Topic: 427 Message: 427

Earlier in the week, one of the towers we're on got bit by lightning. Everybody else on the tower had a bunch of their stuff blown up - TKR850s, controllers, amps, power supplies, all manner of well built stuff.

Our MSR2000 also failed, and I've got it on the bench attempting repairs. Working on the control and audio circuits first.

The Station Control board had two shorted transistors, and so far I've replaced four ICs on the R1 Audio board, and now the audio amp is working.

The speaker amp is an LM380, and the dual op amps I was able to sub with NE5532s (because I had them, any LM358 should do). The analog switch is pin compatible with a 4066 but since I don't really need it, I've got a couple of jumpers in its place now.

I'm expecting to have to replace the quad op amp in the squelch circuit, but it's not pin compatible with a TL074. A search for 79SN273 doesn't produce anything.

So.. does anybody have a semiconductor cross-reference handy, or know what that IC might be?

.. I'm not looking forward to diagnosing the PA. It's a Micor amp and my understanding is those transistors are made of unobtainium. (the good news is we do have some spare radios and modules we could use if we had to)

Wayne WM5Q

428. vhf and uhf msr2000 ham repeater pairs

Yahoo group: MSR2000
Date: 2017-01-12 00:37:18 UTC
From: ve3ext@...
Topic: 428 Message: 428

Any pairs available? will consider uhf and or vhf.
Maybe there are unused repeaters gathering dust. Hate to have to go to int.Crystals., really not cost effective.
tnx/73
Jerry VE3EXT

429. msr2000 boards

Yahoo group: MSR2000
Date: 2017-01-12 00:51:32 UTC
From: ve3ext@...
Topic: 429 Message: 429

Today I located approximately 60 boards., in several boxes.
They are available for a reasonable offering plus postage.

Long range., they are headed for the recycler.

P.S. individual boards are of course available

430. Re: [MSR2000] vhf and uhf msr2000 ham repeater pairs

Yahoo group: MSR2000
Date: 2017-01-12 00:54:03 UTC
From: Ron Wright
Topic: 428 Message: 430

I need all I have, but understand now ICM charges for single re-crystal of a single ch element $180, can cost almost $400 to get a pair re-crystaled. I had a pair done by ICM about 4 years ago, total was $103. makes one think ICM really does not want to do it.
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Wednesday, January 11, 2017 7:37 PM, "ve3ext@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

  Any pairs available? will consider uhf and or vhf.Maybe there are unused repeaters gathering dust. Hate to have to go to int.Crystals., really not cost effective.tnx/73Jerry
 VE3EXT

431. Re: [MSR2000] vhf and uhf msr2000 ham repeater pairs

Yahoo group: MSR2000
Date: 2017-01-12 03:05:46 UTC
From: Dave Hough
Topic: 428 Message: 431

Much of the price increases is what it costs to keep the doors open. Fewer crystals being sold then taxes, wages, Obozocare, overhead all going thru the roof. All of our most recent club repeaters are MSF CXB's because of crystalling cost.

dh, W7GKSpring Creek, NV

From: "Ron Wright lt_wright_flg@... [MSR2000]" <MSR2000@yahoogroups.com>
To: "MSR2000@yahoogroups.com" <MSR2000@yahoogroups.com>
Sent: Wednesday, January 11, 2017 4:54 PM
Subject: Re: [MSR2000] vhf and uhf msr2000 ham repeater pairs

I need all I have, but understand now ICM charges for single re-crystal of a single ch element $180, can cost almost $400 to get a pair re-crystaled. I had a pair done by ICM about 4 years ago, total was $103. makes one think ICM really does not want to do it.
73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Wednesday, January 11, 2017 7:37 PM, "ve3ext@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

Any pairs available? will consider uhf and or vhf.Maybe there are unused repeaters gathering dust. Hate to have to go to int.Crystals., really not cost effective.tnx/73Jerry
VE3EXT

432. Re: [MSR2000] vhf and uhf msr2000 ham repeater pairs

Yahoo group: MSR2000
Date: 2017-01-12 12:08:20 UTC
From: Jerry Beneteau
Topic: 428 Message: 432

Tnx Ron., is there any one else left??
Maybe overseas??
I assume Bomar is out??
73
Jerry VE3EXT
>

433. Re: msr2000 boards

Yahoo group: MSR2000
Date: 2017-01-12 14:12:40 UTC
From: n5vgq@...
Topic: 429 Message: 433

I have a VHF MSR 2000 on the air right now on ham band. I would be interested in a couple of receiver and exciter boards for spars if you have any left.
Jim Rogers N5VGQ
Longview Tx. 75603
Longview East Texas Amateur Radio Club

434. Re: [MSR2000] vhf and uhf msr2000 ham repeater pairs

Yahoo group: MSR2000
Date: 2017-01-12 16:42:50 UTC
From: Ron Wright
Topic: 428 Message: 434

Yes the crystal business has suffered for about all radios in last 10 years are synth'd. Crystals for radios has been dying. Main use today are filters, fixed applications like for wide use oscillators, etc.
ICM per xtal cost is like $27, a slight increase over the last 5 years so they are still in this business. Maybe the recrystaling of elements takes so much more expertise and they have few that can do it. So many other manufs have folded or been bought out.
Would be interesting to know how many xtals ICM sells for radios. I am sure it is way down, but still might be high enough to justify a business.
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Thursday, January 12, 2017 7:08 AM, "Jerry Beneteau ve3ext@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

  Tnx Ron., is there any one else left??
Maybe overseas??
I assume Bomar is out??
73
Jerry VE3EXT
>

435. Re: [MSR2000] Re: msr2000 boards

Yahoo group: MSR2000
Date: 2017-01-12 22:18:35 UTC
From: Jerry Beneteau
Topic: 429 Message: 435

Hi Jim- do you want vhf or uhf??
I'm thinking $50.00 for 2tx and 2rx boards.
You pay the postage., will be mailed from Detroit to your zip code
Best 73
Jerry VE3EXT

436. Re: [MSR2000] Re: msr2000 boards

Yahoo group: MSR2000
Date: 2017-01-12 22:36:57 UTC
From: Bill Blizman
Topic: 429 Message: 436

I would also be interested in a VHF exciter and receiver pair. A squelch gate card too if you have one around. I would be willing to pay $20 plus shipping to have these as spares.

KB1VNO
Northville Amateur Radio Association
www.na1ra.org

On Jan 12, 2017 9:16 AM, "n5vgq@... [MSR2000]" <
MSR2000@yahoogroups.com> wrote:

>
>
> I have a VHF MSR 2000 on the air right now on ham band. I would be
> interested in a couple of receiver and exciter boards for spars if you have
> any left.
> Jim Rogers N5VGQ
> Longview Tx. 75603
> Longview East Texas Amateur Radio Club
>
>

437. MSR2000 elements

Yahoo group: MSR2000
Date: 2017-01-14 10:22:45 UTC
From: M M
Topic: 437 Message: 437

In the same vein as the postings looking for exciters and receivers,
I'm looking for a couple of test-the-exciter-and-receiver elements
for an MSR or a Mitrek....

Basically a pair on any frequency in the 150-159 range, just so
it's a simplex pair.

Please let me know price and shipping (which will be to zip 91740).

Mike WA6ILQ
wa6ilq@...

438. Re: [MSR2000] MSR2000 elements

Yahoo group: MSR2000
Date: 2017-01-14 14:07:39 UTC
From: Jerry Beneteau
Topic: 437 Message: 438

Hi Mike--- the r2 board is TRN9691APR

Also I do have a pair of elements on 155.880

How about $30.00 for both., I pay shipping which will be $11.00 according to the online calculator.

Also., where do I go to cross reference motorola transistors??
The internet has not been helpful?

My email address at paypal is all you need to deposit money there.
Let me know
73
Jerry VE3EXT

439. Re: [MSR2000] MSR2000 elements

Yahoo group: MSR2000
Date: 2017-01-14 15:43:39 UTC
From: Jerry Beneteau
Topic: 437 Message: 439

Hi Mike--- the r2 board is TRN9691APR

Also I do have a pair of elements on 155.880

How about $30.00 for both., I pay shipping which will be $11.00 according to the online calculator.

Also., where do I go to cross reference motorola transistors??
The internet has not been helpful?

My email address at paypal is all you need to deposit money there.
Let me know
73
Jerry VE3EXT

440. Re: [MSR2000] MSR2000 elements

Yahoo group: MSR2000
Date: 2017-01-15 01:48:21 UTC
From: M M
Topic: 437 Message: 440

At 06:07 AM 1/14/2017, you wrote:
>
>Hi Mike--- the r2 board is TRN9691APR
>
>Also I do have a pair of elements on 155.880
>
>How about $30.00 for both., I pay shipping which will be $11.00
>according to the online calculator.
>
>My email address at paypal is all you need to deposit money there.

US$30 sent.

>Also., where do I go to cross reference motorola transistors??
>The internet has not been helpful?

The "M" number is a shortcut due to the fact that transistor cases
are small. Put a prefix of 48-86 in front of the number and Google
the result - for example an M9639 (a common pass transistor in a
Moto power supply) becomes a 48-869639 which googles to a
2N3772 - but a 2N3771 is much more common, and has better
specs.

<https://www.mikesarcade.com/cgi-bin/spies.cgi?action=url&type=info&page=CROSSREF.txt>

>Let me know
>73
>Jerry VE3EXT

Mike WA6ILQ

441. Re: [MSR2000] MSR2000 elements

Yahoo group: MSR2000
Date: 2017-01-15 17:48:14 UTC
From: Jerry Beneteau
Topic: 437 Message: 441

Mike tnx- package on its way to your Glendora address., per QRZ.
73
Jerry VE3EXT

442. UHF MSR2000 Channel elements

Yahoo group: MSR2000
Date: 2017-01-16 16:52:18 UTC
From: nvradtec@...
Topic: 442 Message: 442

I have a UHF MSR2000 in the 403 to 440 range that I will be rocking it up at 421/426 mhz.

I have a set of channel elements that I'm not sure are the right ones, anyone know the element
numbers I need to have, or perhaps have a set they are willing to part with.

ICM still the supplier of choice to have the elements done?

I have "built" a number of VHF machines, this will be my first UHF machine.

Now off to find a set of books or alignment info for a UHF machine

Thanks
Steve

443. Re: [MSR2000] UHF MSR2000 Channel elements

Yahoo group: MSR2000
Date: 2017-01-16 23:22:00 UTC
From: Ron Wright
Topic: 442 Message: 443

Couple months ago it was announced ICM wants $180 per element to recrystal. So check with them.
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Monday, January 16, 2017 11:52 AM, "nvradtec@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

  I have a UHF MSR2000 in the 403 to 440 range that I will be rocking it up at 421/426 mhz.

I have a set of channel elements that I'm not sure are the right ones, anyone know the element
numbers I need to have, or perhaps have a set they are willing to part with.

ICM still the supplier of choice to have the elements done?

I have "built" a number of VHF machines, this will be my first UHF machine.

Now off to find a set of books or alignment info for a UHF machine

Thanks
Steve

444. Re: [MSR2000] UHF MSR2000 Channel elements

Yahoo group: MSR2000
Date: 2017-01-17 00:58:22 UTC
From: ve3bv.ca
Topic: 442 Message: 444

One other thing,, I just had a hair pulling retry stall event..check the IF when ordering Xtal
The most common is 10.7mhz but there are also 10.8mhz versions. I replaced Xtal only, for a buddies machine, tested them in my spare repeater and they were spot on with only 50hz of drift over 3 daysGave them to him and zippy., no work found he had a 10.8 IF ..Took the 5IF Xtal out of another band strip and works.Bruce VE3BV

Sent from my Galaxy Tab® E
-------- Original message --------From: "Ron Wright lt_wright_flg@yahoo.com [MSR2000]" <MSR2000@yahoogroups.com> Date: 2017-01-16 6:22 PM (GMT-05:00) To: MSR2000@yahoogroups.com Subject: Re: [MSR2000] UHF MSR2000 Channel elements

Couple months ago it was announced ICM wants $180 per element to recrystal. So check with them.
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@tampabay.rr.com

On Monday, January 16, 2017 11:52 AM, "nvradtec@yahoo.com [MSR2000]" <MSR2000@yahoogroups.com> wrote:

I have a UHF MSR2000 in the 403 to 440 range that I will be rocking it up at 421/426 mhz.

I have a set of channel elements that I'm not sure are the right ones, anyone know the element
numbers I need to have, or perhaps have a set they are willing to part with.

ICM still the supplier of choice to have the elements done?

I have "built" a number of VHF machines, this will be my first UHF machine.

Now off to find a set of books or alignment info for a UHF machine

Thanks
Steve

445. Re: [MSR2000] UHF MSR2000 Channel elements

Yahoo group: MSR2000
Date: 2017-01-17 00:10:45 UTC
From: Wayne Hoskins
Topic: 442 Message: 445

I got a pair of elements turn-key from them a year ago - the regular KXN1086/1088 5ppm kind - and at the time it was 110 if I provided the elements and another 50 if they did, so that worked out to 320 for the pair. Great work and fast turnaround though. The only thing worth noting is the transmit element came with the IDC set for 2.5k deviation, but other than that they were completely plug and play.

That was for a 444/449 pair, not sure if anything would be different for a 420 pair.

The 2ppm kind are a bit more expensive from what I recall, and even on UHF with the extra tripler circuit, I haven't seen any issues with the looser-tolerance 5ppm rocks.

A while back I bought a bag of elements on eBay for not a lot of money - you could potentially save 75 bucks or so if you got some and sent them in to be redone. VHF or UHF doesn't matter, same elements, just there's an extra tripler on the RF deck.

Repeater-builder has the manual PDFs and they had everything I needed.

Good luck!

Wayne WM5Q

> On Jan 16, 2017, at 5:22 PM, Ron Wright lt_wright_flg@... [MSR2000] <MSR2000@yahoogroups.com> wrote:
>
> Couple months ago it was announced ICM wants $180 per element to recrystal. So check with them.
>
> 73, ron, n9ee/r
>
> Ron Wright, N9EE/R
> BSEE
> Micro Computer Concepts
> Spring Hill, Florida
> 146.64 repeater, 1100 ft HAAT
> 352-683-4476
> also mccrpt@...
>
>
> On Monday, January 16, 2017 11:52 AM, "nvradtec@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:
>
>
>
> I have a UHF MSR2000 in the 403 to 440 range that I will be rocking it up at 421/426 mhz.
>
> I have a set of channel elements that I'm not sure are the right ones, anyone know the element

> numbers I need to have, or perhaps have a set they are willing to part with.
>
> ICM still the supplier of choice to have the elements done?
>
> I have "built" a number of VHF machines, this will be my first UHF machine.
>
> Now off to find a set of books or alignment info for a UHF machine
>
> Thanks
> Steve
>
>
>
>

446. Re: [MSR2000] Re: msr2000 boards

Yahoo group: MSR2000
Date: 2017-01-18 11:42:06 UTC
From: K7gdm
Topic: 429 Message: 446

Hi Jerry,

My name & call is Dave, k7gdm. I'm curious about the MSR-2000 boards you have available now after posting the information regarding them. I have two MSR-2000 VHF repeaters that my friend gave me as well as an Motorola MSF-5000, a Uniden ARU-251 vhf machine and a few GE Master II's, an EF Johnson uhf repeater etc.

I'm interested in what you have. Do you have any photos of some of the equipment available or a rough list of same?

Thank you for your response.

Dave McCracken-Amateur Radio Lic. k7gdm
and Rocky the service dog

On Jan 12, 2017, at 3:18 PM, Jerry Beneteau ve3ext@... [MSR2000] <MSR2000@yahoogroups.com> wrote:

Hi Jim- do you want vhf or uhf??
I'm thinking $50.00 for 2tx and 2rx boards.
You pay the postage., will be mailed from Detroit to your zip code
Best 73
Jerry VE3EXT

447. Re: [MSR2000] Re: msr2000 boards

Yahoo group: MSR2000
Date: 2017-01-18 22:26:09 UTC
From: Jerry Beneteau
Topic: 429 Message: 447

Hi Dave-- if you go to the repeater builder's site., there is much material on the mrs repeaters., tons of info.

I have many of the cards that are used with these.
The repeater site contains many pics.
Sounds like you have a lot ahead of you if you're going to put these on the air

Cheers
73
Jerry VE3EXT

O

448. Re: [MSR2000] Re: msr2000 boards

Yahoo group: MSR2000
Date: 2017-01-19 05:54:43 UTC
From: M M
Topic: 429 Message: 448

At 02:26 PM 1/18/2017, you wrote:
>
>Hi Dave-- if you go to the repeater builder's site., there is much
>material on the mrs repeaters., tons of info.
>
>I have many of the cards that are used with these.
>The repeater site contains many pics.
>Sounds like you have a lot ahead of you if you're going to put
these on the air
>
>Cheers
>73
>Jerry VE3EXT

Since we are discussing the MSR boards and the repeater builder
web site I'd like to mention that we have zero info on any 406-420 MHz
MSR equipment. If anyone has any info on any MSR part numbers in
that frequency range I'd love to have it... receiver part numbers,
exciter part numbers, PA deck part numbers, etc.

Mike WA6ILQ
(one of the authors at repeater-builder)

449. no transmit unless.....

Yahoo group: MSR2000
Date: 2017-01-19 19:49:28 UTC
From: michaeltylerwv@...
Topic: 449 Message: 449

Could one of you experts tell me what my problem is with my vhf msr2000 ...It is for the 145.69 Digital Emergency Radio Network .....it worked fine until it got a power surge....now zero transmit power unless I ground the cathode of cr901 on the control board.....then I can adjust power control and the final amp makes good power .thanks very much....

450. Re: [MSR2000] no transmit unless.....

Yahoo group: MSR2000
Date: 2017-01-19 20:19:59 UTC
From: Wayne Hoskins
Topic: 449 Message: 450

Big or small amp?

I had an issue on a Power Control board on a big amp a couple months ago where it would always run wide open. After fighting with it, I shotgunned all the ceramic caps on the Power Control board and that seems to have fixed it.

Have you probed around on the PCB with a meter?

What kinda power surge? Anything else out of whack?

Wayne WM5Q

On 19 Jan 2017 11:49:28 -0800
"michaeltylerwv@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

> Could one of you experts tell me what my problem is with my vhf msr2000 ...It is for the 145.69 Digital Emergency Radio Network .....it worked fine until it got a power surge....now zero transmit power unless I ground the cathode of cr901 on the control board.....then I can adjust power control and the final amp makes good power .thanks very much....

451. Re: [MSR2000] no transmit unless.....

Yahoo group: MSR2000
Date: 2017-01-19 20:37:37 UTC
From: michael tyler
Topic: 449 Message: 451

HI, it is a 100 watt amp....everything else seems to be ok.....the surge was from a storm...Its out in my garage on the bench....its too heavy to bring into the shack...if you jumper CR901 cathode to ground it seems to work....any ideas????thanks

---
On Thu, 1/19/17, Wayne Hoskins wayne@... [MSR2000] <MSR2000@yahoogroups.com> wrote:

Subject: Re: [MSR2000] no transmit unless.....
To: MSR2000@yahoogroups.com
Date: Thursday, January 19, 2017, 3:19 PM

Big or small amp?

I had an issue on a Power Control board on a big amp a
couple months ago where it would always run wide open. After
fighting with it, I shotgunned all the ceramic caps on the
Power Control board and that seems to have fixed it.

Have you probed around on the PCB with a meter?

What kinda power surge? Anything else out of whack?

Wayne WM5Q

On 19 Jan 2017 11:49:28 -0800

"michaeltylerwv@... [MSR2000]"
<MSR2000@yahoogroups.com> wrote:

> Could one of you experts tell me what my problem is
with my vhf msr2000 ...It is for the 145.69 Digital
Emergency Radio Network .....it worked fine until it got a
power surge....now zero transmit power unless I ground the
cathode of cr901 on the control board.....then I can
adjust power control and the final amp makes good power
.thanks very much....

452. Re: [MSR2000] no transmit unless.....

Yahoo group: MSR2000
Date: 2017-01-19 20:10:20 UTC
From: ve3bv.ca
Topic: 449 Message: 452

Check the transistor on the left side of the paBruce VE3BV

Sent from my Galaxy Tab® E
-------- Original message --------From: "michaeltylerwv@yahoo.com [MSR2000]" <MSR2000@yahoogroups.com> Date: 2017-01-19 2:49 PM (GMT-05:00) To: MSR2000@yahoogroups.com Subject: [MSR2000] no transmit unless.....

Could one of you experts tell me what my problem is with my vhf msr2000 ...It is for the 145.69 Digital Emergency Radio Network .....it worked fine until it got a power surge....now zero transmit power unless I ground the cathode of cr901 on the control board.....then I can adjust power control and the final amp makes good power .thanks very much....

453. Re: [MSR2000] Re: msr2000 boards

Yahoo group: MSR2000
Date: 2017-01-19 23:40:28 UTC
From: Jerry Beneteau
Topic: 429 Message: 453

Mike ------my uhf supplement book is 450-512 MHz

Jerry VE3EXT

>

454. Re: [MSR2000] no transmit unless.....

Yahoo group: MSR2000
Date: 2017-01-19 23:56:57 UTC
From: michael tyler
Topic: 449 Message: 454

Bruce,

I am a little confused about what transistor you mean.....? on control board? on powersupply regulator board??...The power amplifier works at 100 watts but not unless I ground CR901 cathode on the diode.....

On Thu, 1/19/17, 've3bv.ca' ve3bv.ca@gmail.com [MSR2000] <MSR2000@yahoogroups.com> wrote:

Subject: Re: [MSR2000] no transmit unless.....
To: MSR2000@yahoogroups.com
Date: Thursday, January 19, 2017, 3:10 PM

Check the transistor on the left side of
the paBruce VE3BV

Sent from my Galaxy
Tab® E
-------- Original
message --------From:
"michaeltylerwv@... [MSR2000]"
<MSR2000@yahoogroups.com> Date: 2017-01-19
2:49 PM (GMT-05:00) To: MSR2000@yahoogroups.com
Subject: [MSR2000] no transmit unless.....

Could one of you experts tell me what
my problem is with my vhf msr2000 ...It is for the 145.69
Digital Emergency Radio Network .....it worked fine until
it got a power surge....now zero transmit power unless I
ground the cathode of cr901 on the control board.....then
I can adjust power control and the final amp makes good
power .thanks very much....

455. Re: [MSR2000] no transmit unless.....

Yahoo group: MSR2000
Date: 2017-01-20 01:09:50 UTC
From: ve3bv.ca
Topic: 449 Message: 455

What your missing is the keyed A-.On the metal bracket that has the black power barrier strip there are 2 transistors. One is mounted on the side of the bracket and you have to undo the screws to find the other. You want to check the one on the side ,large TO 3 2n3055 style. The one under the bracket is the one that controls the external input power level. Don't exceed .6 of a watt of drive
I lent my manual so I'm going by memory..
Bruce VE3BV

Sent from my Galaxy Tab® E
-------- Original message --------From: "michael tyler michaeltylerwv@yahoo.com [MSR2000]" <MSR2000@yahoogroups.com> Date: 2017-01-19 6:56 PM (GMT-05:00) To: MSR2000@yahoogroups.com Subject: Re: [MSR2000] no transmit unless.....

Bruce,

I am a little confused about what transistor you mean.....? on control board? on powersupply regulator board??...The power amplifier works at 100 watts but not unless I ground CR901 cathode on the diode.....

On Thu, 1/19/17, 've3bv.ca' ve3bv.ca@gmail.com [MSR2000] <MSR2000@yahoogroups.com> wrote:

Subject: Re: [MSR2000] no transmit unless.....

To: MSR2000@yahoogroups.com

Date: Thursday, January 19, 2017, 3:10 PM

Check the transistor on the left side of

the paBruce VE3BV

Sent from my Galaxy

Tab® E

-------- Original

message --------From:

"michaeltylerwv@yahoo.com [MSR2000]"

<MSR2000@yahoogroups.com> Date: 2017-01-19

2:49 PM (GMT-05:00) To: MSR2000@yahoogroups.com

Subject: [MSR2000] no transmit unless.....

Could one of you experts tell me what

my problem is with my vhf msr2000 ...It is for the 145.69 Digital Emergency Radio Network .....it worked fine until it got a power surge....now zero transmit power unless I ground the cathode of cr901 on the control board.....then I can adjust power control and the final amp makes good power .thanks very much....

456. Re: [MSR2000] no transmit unless.....

Yahoo group: MSR2000
Date: 2017-01-20 02:48:40 UTC
From: Wayne Hoskins
Topic: 449 Message: 456

In a lightning strike we took to one of our sites here at Thanksgiving, we popped random transistors on practically every board. Keyed A- comes from the Station Control card, and one of the failures was in that circuit. If that's failed, that could do it as well. It took me some time to ring out the control logic, and in the end it was easier to just change out all the cards to get the station running. I also added LEDs to them so I could see what the radio was doing, very handy.

Got some spare cards to test with?

Wayne WM5Q

> On Jan 19, 2017, at 7:09 PM, 've3bv.ca' ve3bv.ca@... [MSR2000] <MSR2000@yahoogroups.com> wrote:
>
> What your missing is the keyed A-.
> On the metal bracket that has the black power barrier strip there are 2 transistors. One is mounted on the side of the bracket and you have to undo the screws to find the other. You want to check the one on the side ,large TO 3 2n3055 style. The one under the bracket is the one that controls the external input power level. Don't exceed .6 of a watt of drive
>
> I lent my manual so I'm going by memory..
>
> Bruce
> VE3BV
>
>
> Sent from my Galaxy Tab® E
>
> -------- Original message --------
> From: "michael tyler michaeltylerwv@... [MSR2000]" <MSR2000@yahoogroups.com>
> Date: 2017-01-19 6:56 PM (GMT-05:00)
> To: MSR2000@yahoogroups.com
> Subject: Re: [MSR2000] no transmit unless.....
>
>
> Bruce,
>
> I am a little confused about what transistor you mean.....? on control board? on powersupply regulator board??...The power amplifier works at 100 watts but not unless I ground CR901 cathode on the diode.....
>
> ---
> On Thu, 1/19/17, 've3bv.ca' ve3bv.ca@... [MSR2000] <MSR2000@yahoogroups.com> wrote:
>
> Subject: Re: [MSR2000] no transmit unless.....
> To: MSR2000@yahoogroups.com

> Date: Thursday, January 19, 2017, 3:10 PM
>
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> Sent from my Galaxy
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> -------- Original
> message --------From:
> "michaeltylerwv@yahoo.com [MSR2000]"
> <MSR2000@yahoogroups.com> Date: 2017-01-19
> 2:49 PM (GMT-05:00) To: MSR2000@yahoogroups.com
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> Could one of you experts tell me what
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> Digital Emergency Radio Network .....it worked fine until
> it got a power surge....now zero transmit power unless I
> ground the cathode of cr901 on the control board.....then
> I can adjust power control and the final amp makes good
> power .thanks very much....
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457. Re: [MSR2000] Re: msr2000 boards

Yahoo group: MSR2000
Date: 2017-01-20 05:03:34 UTC
From: M M
Topic: 429 Message: 457

At 03:40 PM 1/19/2017, Jerry Beneteau <ve3ext@...> wrote:
>
>Mike ------my uhf supplement book is 450-512 MHz
>
>Jerry VE3EXT

Mine too - but I've seen 406-420 range MSRs at federal radio sites.
Just have never had permission to lay hands on one.

And I know that there was another UHF supplement that included
406-420, as I saw one.

Mike WA6ILQ

458. Re: [MSR2000] no transmit unless.....

Yahoo group: MSR2000
Date: 2017-01-20 13:05:15 UTC
From: ve3bv.ca
Topic: 449 Message: 458

Michael
I've been reading this thread again and with all the suggestions I can see how you could get confused.
I've worked on these units from their production ,I worked for Motorola as a systems dude.
To narrow this down even better , do the following tests
1 Leave the molex connection hooked up2Remove the Bnc input from the pa 3 hook up watt meter and dummy load to the Bnc cable..4ptt the unit and you should have at least 1/2 a watt. If you do the problem is on the pa 5 there is a pot beside the 12 volt hookup that sets the voltage to power the final transistor on the exciter, don't go above .6 of a watt. The keyed A- goes all over the place.. if you go to the section of the manual that has the interconnect board ,there is a chart you can follow it..
Good luckFeel free to email me directly
Bruce VE3BV

Sent from my Galaxy Tab® E
-------- Original message --------From: "michael tyler michaeltylerwv@yahoo.com [MSR2000]" <MSR2000@yahoogroups.com> Date: 2017-01-19 6:56 PM (GMT-05:00) To: MSR2000@yahoogroups.com Subject: Re: [MSR2000] no transmit unless.....

Bruce,

I am a little confused about what transistor you mean.....? on control board? on powersupply regulator board??...The power amplifier works at 100 watts but not unless I ground CR901 cathode on the diode.....

On Thu, 1/19/17, 've3bv.ca' ve3bv.ca@gmail.com [MSR2000] <MSR2000@yahoogroups.com> wrote:

Subject: Re: [MSR2000] no transmit unless.....

To: MSR2000@yahoogroups.com

Date: Thursday, January 19, 2017, 3:10 PM

Check the transistor on the left side of

the paBruce VE3BV

Sent from my Galaxy

Tab® E

-------- Original

message --------From:

"michaeltylerwv@yahoo.com [MSR2000]"

<MSR2000@yahoogroups.com> Date: 2017-01-19

2:49 PM (GMT-05:00) To: MSR2000@yahoogroups.com

Subject: [MSR2000] no transmit unless.....

Could one of you experts tell me what

my problem is with my vhf msr2000 ...It is for the 145.69

Digital Emergency Radio Network .....it worked fine until

it got a power surge....now zero transmit power unless I

ground the cathode of cr901 on the control board.....then

I can adjust power control and the final amp makes good

power .thanks very much....

459. Re: [MSR2000] no transmit unless.....

Yahoo group: MSR2000
Date: 2017-01-24 18:12:47 UTC
From: michaeltylerwv@...
Topic: 449 Message: 459

ok guys, I finally got the msr2000 transmitting.....I got a manual and took it to the garage work bench with me....I discovered the current limit pot was not changing the out put of the op amp.....I removed the old 8 pin chip and installed a 8 pin dip socket and inserted a 1458 ic dual op amp...I checked the pin out and they are the same.....now everything works like it is suppose to and I am a happy camper.....thanks to all for the suggestions....Michael wa8ywo

460. 406 to 430 UHF

Yahoo group: MSR2000
Date: 2017-01-25 17:04:23 UTC
From: nvradtec@...
Topic: 460 Message: 460

Would anyone know where I can get the manuals for the 406 to 430 MSR2000 base/repeater?

I've acquired 2 of these and going to use them for link radios, just have to round up some channel elements

Thanks
Steve

461. International Crystal Manufacturing closing

Yahoo group: MSR2000
Date: 2017-03-11 02:42:47 UTC
From: ki4bst
Topic: 461 Message: 461

I just found this message on the ICM web site. Are we finished with our MSR2000 if we have crystal failure? Where can we get quality crystals?

Darrell, AF4E

IMPORTANT NOTICE

462. Re: [MSR2000] International Crystal Manufacturing closing

Yahoo group: MSR2000
Date: 2017-03-11 02:57:44 UTC
From: Dave Hough
Topic: 461 Message: 462

JAN Crystals in Ft.Meyer, FL is still in business last time I checked.
Dave, W7GK

From: ki4bst <no_reply@yahoogroups.com>
To: MSR2000@yahoogroups.com
Sent: Friday, March 10, 2017 6:44 PM
Subject: [MSR2000] International Crystal Manufacturing closing

I just found this message on the ICM web site. Are we finished with our MSR2000 if we have crystal failure? Where can we get quality crystals?
Darrell, AF4E

IMPORTANT NOTICE

463. Re: [MSR2000] International Crystal Manufacturing closing

Yahoo group: MSR2000
Date: 2017-03-11 03:54:51 UTC
From: Ron Wright
Topic: 461 Message: 463

Not sure if still doing it, but Bomar was a radio crystal manuf. 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Friday, March 10, 2017 10:00 PM, "Dave Hough w7gk_1@... [MSR2000]"
<MSR2000@yahoogroups.com> wrote:

  JAN Crystals in Ft.Meyer, FL is still in business last time I checked.
Dave, W7GK

From: ki4bst <no_reply@yahoogroups.com>
To: MSR2000@yahoogroups.com
Sent: Friday, March 10, 2017 6:44 PM
Subject: [MSR2000] International Crystal Manufacturing closing

I just found this message on the ICM web site. Are we finished with our MSR2000 if we have crystal failure? Where can we get quality crystals?
Darrell, AF4E

IMPORTANT NOTICE

464. Re: [MSR2000] International Crystal Manufacturing closing

Yahoo group: MSR2000
Date: 2017-03-11 04:23:58 UTC
From: ki4bst
Topic: 461 Message: 464

Bomar stopped LMR crystals years ago.

465. Re: [MSR2000] International Crystal Manufacturing closing

Yahoo group: MSR2000
Date: 2017-03-11 04:39:42 UTC
From: ki4bst
Topic: 461 Message: 465

http://www.quartslab.com/ http://www.quartslab.com/

466. Exciter output low

Yahoo group: MSR2000
Date: 2017-05-10 17:25:30 UTC
From: kd9apz@...
Topic: 466 Message: 466

I was wondering if anyone can steer me in the right direction on this issue. We have an MSR2000 intermittent duty. Our final output dropped to 25 watts and the exciter output is currently not even half a watt. Is there something obvious to check or try? Just wondering if anybody would have any input as to if they have seen this issue before? I believe the exciter is the TLD9242 version

Thanks
Kevin

467. Re: [MSR2000] Exciter output low

Yahoo group: MSR2000
Date: 2017-05-10 17:44:31 UTC
From: Ron Wright
Topic: 466 Message: 467

The exciter output is controlled by voltage from the PA. The final in the exciter gets it's collector voltage from the PA power control board feeding back and is adjusted to adjust drive to control power out of the PA. Half watt is typical of the exciter. Only takes about 1/2 W to drive any of the MSR2000's PAs, cont duty or intermit.
If have only 25 W from assuming 100W PA the problem is probably some bad finals in the PA. Rather than try to find replacement transistors often easier and less expensive to find same PA on ebay. 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Wednesday, May 10, 2017 1:25 PM, "kd9apz@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

  I was wondering if anyone can steer me in the right direction on this issue. We have an MSR2000 intermittent duty. Our final output dropped to 25 watts and the exciter output is currently not even half a watt. Is there something obvious to check or try? Just wondering if anybody would have any input as to if they have seen this issue before? I believe the exciter is the TLD9242 version

ThanksKevin

468. Re: [MSR2000] Exciter output low

Yahoo group: MSR2000
Date: 2017-05-10 19:01:03 UTC
From: Bruce Clements
Topic: 466 Message: 468

A int duty PA runs only 45 watts. First check the voltage that is coming out of the power control that heads to the exciter.
If its lower than 6 volts ,open the plate over the control board and readjust.. The other issue is the VSWR could have gone up and its being cut back..

Bruce
ve3bv

On Wed, May 10, 2017 at 1:44 PM, Ron Wright lt_wright_flg@... [MSR2000] <MSR2000@yahoogroups.com> wrote:

>
>
> The exciter output is controlled by voltage from the PA. The final in the
> exciter gets it's collector voltage from the PA power control board feeding
> back and is adjusted to adjust drive to control power out of the PA. Half
> watt is typical of the exciter. Only takes about 1/2 W to drive any of the
> MSR2000's PAs, cont duty or intermit.
>
> If have only 25 W from assuming 100W PA the problem is probably some bad
> finals in the PA.
>
> Rather than try to find replacement transistors often easier and less
> expensive to find same PA on ebay.
>
> 73, ron, n9ee/r
>
> Ron Wright, N9EE/R
> BSEE
> Micro Computer Concepts
> Spring Hill, Florida
> 146.64 repeater, 1100 ft HAAT
> 352-683-4476 <(352)%20683-4476>
> also mccrpt@... <mccrpt@...>
>
>
> On Wednesday, May 10, 2017 1:25 PM, "kd9apz@... [MSR2000]" <
> MSR2000@yahoogroups.com> wrote:
>
>
>
> I was wondering if anyone can steer me in the right direction on this
> issue. We have an MSR2000 intermittent duty. Our final output dropped to 25
> watts and the exciter output is currently not even half a watt. Is there
> something obvious to check or try? Just wondering if anybody would have any

> input as to if they have seen this issue before? I believe the exciter is
> the TLD9242 version
>
>
> Thanks
> Kevin
>
>
>
>
>

469. Re: [MSR2000] Exciter output low

Yahoo group: MSR2000
Date: 2017-05-10 21:28:51 UTC
From: Kevin Coffey
Topic: 466 Message: 469

Wow. Thanks for all the responses. All of the testing was done in to a dummy load and we checked the antenna system with an analyzer and all looks OK. We measured the voltage to the exciter from the amp and it ranged from 4 to 6.5 volts at the highest depending how high we turned it up on the control board. I am wondering if that is the problem? Any idea what the range should be? I know it varies as set but I did not see any definitive info in all of the documentation as to what that voltage range should be exactly.

On Wed, May 10, 2017 at 2:01 PM, Bruce Clements ve3bv.ca@...
[MSR2000] <MSR2000@yahoogroups.com> wrote:

>
>
> A int duty PA runs only 45 watts. First check the voltage that is coming
> out of the power control that heads to the exciter.
> If its lower than 6 volts ,open the plate over the control board and
> readjust.. The other issue is the VSWR could have gone up and its being cut
> back..
>
> Bruce
> ve3bv
>
> On Wed, May 10, 2017 at 1:44 PM, Ron Wright lt_wright_flg@...
> [MSR2000] <MSR2000@...m> wrote:
>
>>
>>
>> The exciter output is controlled by voltage from the PA. The final in the
>> exciter gets it's collector voltage from the PA power control board feeding
>> back and is adjusted to adjust drive to control power out of the PA. Half
>> watt is typical of the exciter. Only takes about 1/2 W to drive any of the
>> MSR2000's PAs, cont duty or intermit.
>>
>> If have only 25 W from assuming 100W PA the problem is probably some bad
>> finals in the PA.
>>
>> Rather than try to find replacement transistors often easier and less
>> expensive to find same PA on ebay.
>>
>> 73, ron, n9ee/r
>>
>> Ron Wright, N9EE/R
>> BSEE
>> Micro Computer Concepts

>> Spring Hill, Florida
>> 146.64 repeater, 1100 ft HAAT
>> 352-683-4476 <(352)%20683-4476>
>> also mccrpt@... <mccrpt@...>
>>
>>
>> On Wednesday, May 10, 2017 1:25 PM, "kd9apz@... [MSR2000]" <
>> MSR2000@yahoogroups.com> wrote:
>>
>>
>>
>> I was wondering if anyone can steer me in the right direction on this
>> issue. We have an MSR2000 intermittent duty. Our final output dropped to 25
>> watts and the exciter output is currently not even half a watt. Is there
>> something obvious to check or try? Just wondering if anybody would have any
>> input as to if they have seen this issue before? I believe the exciter is
>> the TLD9242 version
>>
>>
>> Thanks
>> Kevin
>>
>>
>>
>>
>
>

--

Kevin Coffey
KD9APZ
Ogle County ARES Emergency Coordinator
kd9apz@...
kd9apz@...
630-362-1224

470. Re: [MSR2000] Exciter output low

Yahoo group: MSR2000
Date: 2017-05-10 22:30:34 UTC
From: Wayne Hoskins
Topic: 466 Message: 470

Seems like it's supposed to be able to go up to (or maybe past) 8 volts, at least with the big amp. That may or may not be relevant though, since the big amp was either mostly or fully carried over from the Micor stations, while the small amp was new.

You should be able to get more out of the amp than you are though, quite a bit more. Sure sounds like a failure in the RF section of the amp - half a watt from the exciter should be way more than enough for full (or at least upscale) output.

Shipping can be expensive, but another amp is what I'd look at first. I'd try to get the big amp since it'll do 50+ continuous duty without breaking a sweat. I did a burn-in test of one in a station I rebuilt here a few months ago, set for 50 watts out, an hour and a half carrier up. The amp was happy as a clam, I could have continued the test for much longer but it wasn't getting any hotter and there didn't seem to be a reason to. .. I'm not sure the small amp would fare as well at that power.

Wayne WM5Q

> On May 10, 2017, at 4:28 PM, Kevin Coffey kd9apz@... [MSR2000] <MSR2000@yahoogroups.com> wrote:
>
> Wow. Thanks for all the responses. All of the testing was done in to a dummy load and we checked the antenna system with an analyzer and all looks OK. We measured the voltage to the exciter from the amp and it ranged from 4 to 6.5 volts at the highest depending how high we turned it up on the control board. I am wondering if that is the problem? Any idea what the range should be? I know it varies as set but I did not see any definitive info in all of the documentation as to what that voltage range should be exactly.
>
>> On Wed, May 10, 2017 at 2:01 PM, Bruce Clements ve3bv.ca@... [MSR2000] <MSR2000@yahoogroups.com> wrote:
>>
>> A int duty PA runs only 45 watts. First check the voltage that is coming out of the power control that heads to the exciter.
>> If its lower than 6 volts ,open the plate over the control board and readjust.. The other issue is the VSWR could have gone up and its being cut back..
>>
>> Bruce
>> ve3bv
>>
>>> On Wed, May 10, 2017 at 1:44 PM, Ron Wright lt_wright_flg@... [MSR2000] <MSR2000@yahoogroups.com> wrote:
>>>
>>> The exciter output is controlled by voltage from the PA. The final in the exciter gets it's collector voltage from the PA power control board feeding back and is adjusted to adjust drive to control power out of the PA. Half watt is typical of the exciter. Only takes about 1/2 W to drive any of the MSR2000's PAs, cont duty or intermit.
>>>

>>> If have only 25 W from assuming 100W PA the problem is probably some bad finals in the PA.
>>>
>>> Rather than try to find replacement transistors often easier and less expensive to find same PA on ebay.
>>>
>>> 73, ron, n9ee/r
>>>
>>> Ron Wright, N9EE/R
>>> BSEE
>>> Micro Computer Concepts
>>> Spring Hill, Florida
>>> 146.64 repeater, 1100 ft HAAT
>>> 352-683-4476
>>> also mccrpt@...
>>>
>>>
>>> On Wednesday, May 10, 2017 1:25 PM, "kd9apz@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:
>>>
>>>
>>>
>>> I was wondering if anyone can steer me in the right direction on this issue. We have an MSR2000 intermittent duty. Our final output dropped to 25 watts and the exciter output is currently not even half a watt. Is there something obvious to check or try? Just wondering if anybody would have any input as to if they have seen this issue before? I believe the exciter is the TLD9242 version
>>>
>>>
>>> Thanks
>>> Kevin
>>>
>>>
>>>
>>
>
>
>
> --
>
> Kevin Coffey
> KD9APZ
> Ogle County ARES Emergency Coordinator
> kd9apz@...
> kd9apz@...
> 630-362-1224
>

471. Re: [MSR2000] Exciter output low

Yahoo group: MSR2000
Date: 2017-05-10 23:47:25 UTC
From: ve3bv.ca
Topic: 466 Message: 471

The output of the control voltage will go from 4 to 9 volts.What I do when I set up TX output on a MSR2000 is to terminate the exciter into my IFR, set the exciter for 1/2 watt using the control voltage.Hook it back to the PA and check power set for the PA.
If you decide to look into a 100 watt unit, you have to move one wire on the white molex plug and the power supply needs to be changed. The onboard supply won't take running 100 watts but will loaf along at 50 no problem. On the surplus market you can grab complete 100 watt units for $200.00 . Make sure if you decide to throttle back a 100 watt unit and run it on the lower current supply, check it on a Spectrum Analyzer, just to be safe.
I've been using msr2000 for over 30 years commercially and for ham use, there heavy duty and I wouldn't trade them for love nor money.
BruceVE3BV VE3AAY

Sent from my Galaxy Tab® E
-------- Original message --------From: "Wayne Hoskins wayne@wm5q.com [MSR2000]" <MSR2000@yahoogroups.com> Date: 2017-05-10 6:30 PM (GMT-05:00) To: MSR2000@yahoogroups.com Subject: Re: [MSR2000] Exciter output low

Seems like it's supposed to be able to go up to (or maybe past) 8 volts, at least with the big amp. That may or may not be relevant though, since the big amp was either mostly or fully carried over from the Micor stations, while the small amp was new.
You should be able to get more out of the amp than you are though, quite a bit more. Sure sounds like a failure in the RF section of the amp - half a watt from the exciter should be way more than enough for full (or at least upscale) output.
Shipping can be expensive, but another amp is what I'd look at first. I'd try to get the big amp since it'll do 50+ continuous duty without breaking a sweat. I did a burn-in test of one in a station I rebuilt here a few months ago, set for 50 watts out, an hour and a half carrier up. The amp was happy as a clam, I could have continued the test for much longer but it wasn't getting any hotter and there didn't seem to be a reason to. .. I'm not sure the small amp would fare as well at that power.
Wayne WM5Q

On May 10, 2017, at 4:28 PM, Kevin Coffey kd9apz@gmail.com [MSR2000] <MSR2000@yahoogroups.com> wrote:

Wow. Thanks for all the responses. All of the testing was done in to a dummy load and we checked the antenna system with an analyzer and all looks OK. We measured the voltage to the exciter from the amp and it ranged from 4 to 6.5 volts at the highest depending how high we turned it up on the control board. I am wondering if that is the problem? Any idea what the range should be? I know it varies as set but I did not see any definitive info in all of the documentation as to what that voltage range should be exactly.

On Wed, May 10, 2017 at 2:01 PM, Bruce Clements ve3bv.ca@gmail.com [MSR2000] <MSR2000@yahoogroups.com> wrote:

A int duty PA runs only 45 watts. First check the voltage that is coming out of the power control that heads to the exciter.If its lower than 6 volts ,open the plate over the

control board and readjust.. The other issue is the VSWR could have gone up and its being cut back..
Bruceve3bv
On Wed, May 10, 2017 at 1:44 PM, Ron Wright lt_wright_flg@yahoo.com [MSR2000] <MSR2000@yahoogroups.com> wrote:

The exciter output is controlled by voltage from the PA. The final in the exciter gets it's collector voltage from the PA power control board feeding back and is adjusted to adjust drive to control power out of the PA. Half watt is typical of the exciter. Only takes about 1/2 W to drive any of the MSR2000's PAs, cont duty or intermit.
If have only 25 W from assuming 100W PA the problem is probably some bad finals in the PA. Rather than try to find replacement transistors often easier and less expensive to find same PA on ebay. 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@tampabay.rr.com

On Wednesday, May 10, 2017 1:25 PM, "kd9apz@gmail.com [MSR2000]" <MSR2000@yahoogroups.com> wrote:

I was wondering if anyone can steer me in the right direction on this issue. We have an MSR2000 intermittent duty. Our final output dropped to 25 watts and the exciter output is currently not even half a watt. Is there something obvious to check or try? Just wondering if anybody would have any input as to if they have seen this issue before? I believe the exciter is the TLD9242 version

ThanksKevin

--

Kevin Coffey
KD9APZ
Ogle County ARES Emergency Coordinator
kd9apz@gmail.com
kd9apz@winlink.com
630-362-1224

472. Quartslab crystals in the U.K.

Yahoo group: MSR2000
Date: 2018-02-08 14:01:46 UTC
From: ve3ext@...
Topic: 472 Message: 472

After three seperate emails., I still have not received a response re pricing., do they want our channel elements etc.

So--- my question is., has anyone had recent contact or a purchasing experience with these folks ??
All comments are welcomed
Jerry VE3EXT

473. Re: [MSR2000] Quartslab crystals in the U.K.

Yahoo group: MSR2000
Date: 2018-02-08 15:53:43 UTC
From: Ron Wright
Topic: 472 Message: 473

I too have tried to email Quartslab, 3 times, with no response. On their web site they do come up with a page to fill out asking specific info on whatever crystal you want quoted, but as most xtal manufs they simply want the radio model, freq (rcv or xmt), method of payment and ship to address. they have the info to cut the crystal, has been standard for xtal manufs for 2-way for decades.
So not sure if Quartslab has this info and does business this way.
I had ordered crystals from Bomar, but since ICM closed Bomar doubled their cost, from $25 to $55 per xtal. they do make excellent xtal.
What freq you looking for for the MSR2000???
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Thursday, February 8, 2018 9:01 AM, "ve3ext@... [MSR2000]" <MSR2000@yahoogroups.com> wrote:

  After three seperate emails., I still have not received a response re pricing., do they want our channel elements etc.
So--- my question is., has anyone had recent contact or a purchasing experience with these folks ??All comments are welcomedJerry VE3EXT

474. Re: [MSR2000] Quartslab crystals in the U.K.

Yahoo group: MSR2000
Date: 2018-02-08 17:39:34 UTC
From: M M
Topic: 472 Message: 474

There was a discussion of Quartzlab on the repeater-builder
yahoogroup a while back. You might ask on that group.
I remember someone commenting that he had ordered a pair of crystals
and they worked just fine. I do not remember if he sent the elements
or just bought crystals.

Mike WA6ILQ

On 2/8/2018 6:01 AM, ve3ext@primus.ca [MSR2000] wrote:
> After three seperate emails., I still have not received a response re
> pricing., do they want our channel elements etc.
>
> So--- my question is., has anyone had recent contact or a purchasing
> experience with these folks ??
>
> All comments are welcomed
>
> Jerry VE3EXT
>
>
> ---
> Posted by: ve3ext@primus.ca

475. Re: [MSR2000] Quartslab crystals in the U.K.

Yahoo group: MSR2000
Date: 2018-02-08 17:54:33 UTC
From: Ron Wright
Topic: 472 Message: 475

I had seen the same posting, they did get what they needed for a repeater and it worked out well.
 73, ron, n9ee/r

Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...

On Thursday, February 8, 2018 12:41 PM, "M M wa6ilq@... [MSR2000]"
<MSR2000@yahoogroups.com> wrote:

  There was a discussion of Quartzlab on the repeater-builder
yahoogroup a while back. You might ask on that group.
I remember someone commenting that he had ordered a pair of crystals
and they worked just fine. I do not remember if he sent the elements
or just bought crystals.

Mike WA6ILQ

On 2/8/2018 6:01 AM, ve3ext@... [MSR2000] wrote:
> After three seperate emails., I still have not received a response re
> pricing., do they want our channel elements etc.
>
> So--- my question is., has anyone had recent contact or a purchasing
> experience with these folks ??
>
> All comments are welcomed
>
> Jerry VE3EXT
>
>
> ---
> Posted by: ve3ext@...

476. Re: [MSR2000] Quartslab crystals in the U.K.

Yahoo group: MSR2000
Date: 2018-02-08 22:54:50 UTC
From: Jerry Beneteau
Topic: 472 Message: 476

Ron tnx for your comments.

If you have 2 metre pair available., pls. tell me freqs., so I can see if they're useable in my area
tnx/73
Jerry VE3EXT

On Thu 08/02/18 15:53 , "Ron Wright lt_wright_flg@... [MSR2000]" MSR2000@yahoogroups.com sent:
> I too have tried to email Quartslab, 3 times, with no response. On
> their web site they do come up with a page to fill out asking
> specific info on whatever crystal you want quoted, but as most xtal
> manufs they simply want the radio model, freq (rcv or xmt), method of
> payment and ship to address. they have the info to cut the crystal,
> has been standard for xtal manufs for 2-way for decades.
> So not sure if Quartslab has this info and does business this way.
> I had ordered crystals from Bomar, but since ICM closed Bomar doubled
> their cost, from $25 to $55 per xtal. they do make excellent xtal.
> What freq you looking for for the MSR2000???
> 73, ron, n9ee/r
>
> Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
> 146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...
> On Thursday, February 8, 2018 9:01 AM, "ve3ext@...
> [MSR2000]" wrote:
> After three seperate emails., I still have not received a
> response re pricing., do they want our channel elements etc.
> So--- my question is., has anyone had recent contact or a purchasing
> experience with these folks ??All comments are welcomedJerry VE3EXT
>
>
>
>
> Links:
> ------
> [1]
> http://webmail.primus.ca/javascript:top.opencompose(\'lt_wright_flg@yahoo.c
> om?subject=Re:%20%5BMSR2000%5D%20Quartslab%20crystals%20in%20the%20U.K.\',\
> '\',\'\',\'\')[2]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000@yahoogroups.c
> om?subject=Re:%20%5BMSR2000%5D%20Quartslab%20crystals%20in%20the%20U.K.\',\
> '\',\'\',\'\')[3]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/newtopic;_ylc=X3o
> DMTJmOXU2YmxiBF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOA
> RzZWMDZnRyBHNsawNudHBjBHN0aW1lAzE1MTgxMDUyNTg-[4]

> https://groups.yahoo.com/neo/groups/MSR2000/conversations/topics/472;_ylc=X
> 3oDMTMzNnVuYmVpBF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEw
> OARtc2dJZAM0NzMEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQMxNTE4MTA1MjU4BHRwY0lkAzQ3Mg-
> -[5]
> https://groups.yahoo.com/neo/groups/MSR2000/info;_ylc=X3oDMTJmNXZ1MmFtBF9TA
> zk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2
> Z2hwBHN0aW1lAzE1MTgxMDUyNTg-[6]
> https://groups.yahoo.com/neo;_ylc=X3oDMTJlbHVvMTBhBF9TAzk3NDc2NTkwBGdycElkA
> zIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTUxODEw
> NTI2MQ--[7] https://info.yahoo.com/privacy/us/yahoo/groups/details.html
> [8]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000-unsubscribe@y
> ahoogroups.com?subject=Unsubscribe\',\'\',\'\',\'\')[9]
https://info.yahoo.com/legal/us/yahoo/utos/terms/
>
>

477. Re: [MSR2000] Quartslab crystals in the U.K.

Yahoo group: MSR2000
Date: 2018-02-08 22:56:32 UTC
From: Jerry Beneteau
Topic: 472 Message: 477

Ron tnx for your comments.

If you have 2 metre pair available., pls. tell me freqs., so I can see if they're useable in my area
tnx/73
Jerry VE3EXT

On Thu 08/02/18 15:53 , "Ron Wright lt_wright_flg@... [MSR2000]" MSR2000@yahoogroups.com sent:
> I too have tried to email Quartslab, 3 times, with no response. On
> their web site they do come up with a page to fill out asking
> specific info on whatever crystal you want quoted, but as most xtal
> manufs they simply want the radio model, freq (rcv or xmt), method of
> payment and ship to address. they have the info to cut the crystal,
> has been standard for xtal manufs for 2-way for decades.
> So not sure if Quartslab has this info and does business this way.
> I had ordered crystals from Bomar, but since ICM closed Bomar doubled
> their cost, from $25 to $55 per xtal. they do make excellent xtal.
> What freq you looking for for the MSR2000???
> 73, ron, n9ee/r
>
> Ron Wright, N9EE/RBSEEMicro Computer ConceptsSpring Hill, Florida
> 146.64 repeater, 1100 ft HAAT352-683-4476also mccrpt@...
> On Thursday, February 8, 2018 9:01 AM, "ve3ext@...
> [MSR2000]" wrote:
> After three seperate emails., I still have not received a
> response re pricing., do they want our channel elements etc.
> So--- my question is., has anyone had recent contact or a purchasing
> experience with these folks ??All comments are welcomedJerry VE3EXT
>
>
>
>
> Links:
> ------
> [1]
> http://webmail.primus.ca/javascript:top.opencompose(\'lt_wright_flg@yahoo.c
> om?subject=Re:%20%5BMSR2000%5D%20Quartslab%20crystals%20in%20the%20U.K.\',\
> '\',\'\',\'\')[2]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000@yahoogroups.c
> om?subject=Re:%20%5BMSR2000%5D%20Quartslab%20crystals%20in%20the%20U.K.\',\
> '\',\'\',\'\')[3]
> https://groups.yahoo.com/neo/groups/MSR2000/conversations/newtopic;_ylc=X3o
> DMTJmOXU2YmxiBF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOA
> RzZWMDZnRyBHNsawNudHBjBHN0aW1lAzE1MTgxMDUyNTg-[4]

> https://groups.yahoo.com/neo/groups/MSR2000/conversations/topics/472;_ylc=X
> 3oDMTMzNnVuYmVpBF9TAzk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEw
> OARtc2dJZAM0NzMEc2VjA2Z0cgRzbGsDdnRwYwRzdGltZQMxNTE4MTA1MjU4BHRwY0lkAzQ3Mg-
> -[5]
> https://groups.yahoo.com/neo/groups/MSR2000/info;_ylc=X3oDMTJmNXZ1MmFtBF9TA
> zk3MzU5NzE0BGdycElkAzIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2
> Z2hwBHN0aW1lAzE1MTgxMDUyNTg-[6]
> https://groups.yahoo.com/neo;_ylc=X3oDMTJlbHVvMTBhBF9TAzk3NDc2NTkwBGdycElkA
> zIyMTc2MDU4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTUxODEw
> NTI2MQ--[7] https://info.yahoo.com/privacy/us/yahoo/groups/details.html
> [8]
> http://webmail.primus.ca/javascript:top.opencompose(\'MSR2000-unsubscribe@y
> ahoogroups.com?subject=Unsubscribe\',\'\',\'\',\'\')[9]
https://info.yahoo.com/legal/us/yahoo/utos/terms/
>
>

478. In need of UHF exciter

Yahoo group: MSR2000
Date: 2018-02-09 17:19:37 UTC
From: jlange50@...
Topic: 478 Message: 478

I'm looking for a UHF MSR 2000 exciter. If anyone has one that is surplus to their needs I would appreciate it.

tnx,

Jim
WA2RJP

479. Looking for unwanted crystals pairs

Yahoo group: MSR2000
Date: 2018-02-20 18:32:31 UTC
From: wa6vpl@...
Topic: 479 Message: 479

Looking for any repeater pairs used in MSR2000 or Mitrek that are 2 meters (600 kHz split) or 440 mHz (5 mHz split, don't care if hi-in low-out or reverse). I want to re-channel backup repeaters in order to test and deploy to new sites. Please post what you might have available. Contact off-list is OK if you need to.

Surplus to me and available, (if I find a suitable replacement).....I have:

Tx 147.120 and Rx 147.720 (ICM crystals in Channel Elements)
Tx 443.275 and Rx 448.275 (ICM compensated channel elements)

For 3 Mhz split 420 link, both ends, used with Mitrek radios:

TX & RX 424.340 (ICM crystals + 2 empty Channel Elements)
TX & RX 421.340 (ICM crystals + 2 empty Channel Elements)

Thanks, Jim

480. Micor UHF PA

Yahoo group: MSR2000
Date: 2018-02-18 19:14:59 UTC
From: Wayne Hoskins
Topic: 480 Message: 480

Looking for options for a full duty PA for a UHF MSR2000, it seems like the Micor amp might be easy to retrofit into one of these. Unfortunately I haven’t figured out how to ask Google so it’ll find relevant information.

Anybody have experience doing that? Seems like something somebody else would have done before. Seems like it oughta work fine, maybe with little headache?, but I don’t know.

I pulled the intermittent duty PA out of our transmitter but today, it had seemed a little weak lately .. two watts out of it (give or take a watt) instead of the 30 I expected. I’d like to replace it with a more rugged amp anyway, and there’s a spare Micor station a phone call and a ten minute drive away I could pull the amp from.

Who would’ve thought two watts or so into a high antenna would be as loud as it turns out to be? :)

Wayne WM5Q

481. FS: HAMFEST SALES FOR A SILENT KEY.

Yahoo group: MSR2000
Date: 2018-05-02 09:25:07 UTC
From: hzuiflqar@...
Topic: 481 Message: 481

Selling off a silent key shack as XYL wants space in their new home.

Icom IC 7700, Icom IC-7800, Icom IC-756 PRO III .
Yaesu FT-1000MP, Yaesu FTDX-5000MP.
Kenwood ts 990s, kenwood ts 2000.
Flex 5000A, Flex 6500, Flex 6300.
TenTec OMNI VII

Amps:
ICOM PW-1 HF AMPLIFIER
Alpha 9500 and
Acom 2000
Alpha 87A

Pls send your interest on the rigs available.
Prices are below market value for quick sales.

Email: sbesthel@gmail.com

KB5SIN

Shirley

482. Re: [MSR2000] FS: HAMFEST SALES FOR A SILENT KEY.

Yahoo group: MSR2000
Date: 2018-05-02 10:40:29 UTC
From: Will
Topic: 481 Message: 482

This is a SCAM!

> On May 2, 2018, at 4:25 AM, hzuiflqar@... [MSR2000] <MSR2000@yahoogroups.com> wrote:
>
> Selling off a silent key shack as XYL wants space in their new home.
>
>
>
> Icom IC 7700, Icom IC-7800, Icom IC-756 PRO III .
>
> Yaesu FT-1000MP, Yaesu FTDX-5000MP.
>
> Kenwood ts 990s, kenwood ts 2000.
>
> Flex 5000A, Flex 6500, Flex 6300.
>
> TenTec OMNI VII
>
>
>
> Amps:
>
> ICOM PW-1 HF AMPLIFIER
>
> Alpha 9500 and
>
> Acom 2000
>
> Alpha 87A
>
>
>
> Pls send your interest on the rigs available.
>
> Prices are below market value for quick sales.
>
>
>
> Email: sbesthel@...
>
>
>
>
>
> KB5SIN

>
>
> Shirley
>
>
>
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